

OHIO WEATHER FOR 1914

OHIO
Agricultural Experiment
Station

WOOSTER, OHIO, U. S. A., JUNE, 1915

BULLETIN 287



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¹With leave of absence. ²In cooperation with Weather Service, U. S. Department of Agriculture.

BULLETIN

OF THE

Ohio Agricultural Experiment Station

NUMBER 287

JUNE, 1915

OHIO WEATHER FOR 1914

BY J. WARREN SMITH AND C. A. PATTON

EXPLANATORY

BY THE DIRECTOR

The extension of the work of the Experiment Station over the state, through the district and county experiment farms, makes it necessary that its weather records should be state-wide in their application. Hitherto the only attempt at such application has been to give the average rainfall and temperature for the entire state for comparison with the observations taken at the main station at Wooster, but it is now possible, through the cooperation of Prof. J. Warren Smith, Section Director for Ohio of the U. S. Weather Bureau, to supplement these records with a series of diagrammatic maps, showing at a glance the comparative weather conditions for the different sections of the state.

These maps will be followed by the usual summary tables

Mean temperature, January, 1914

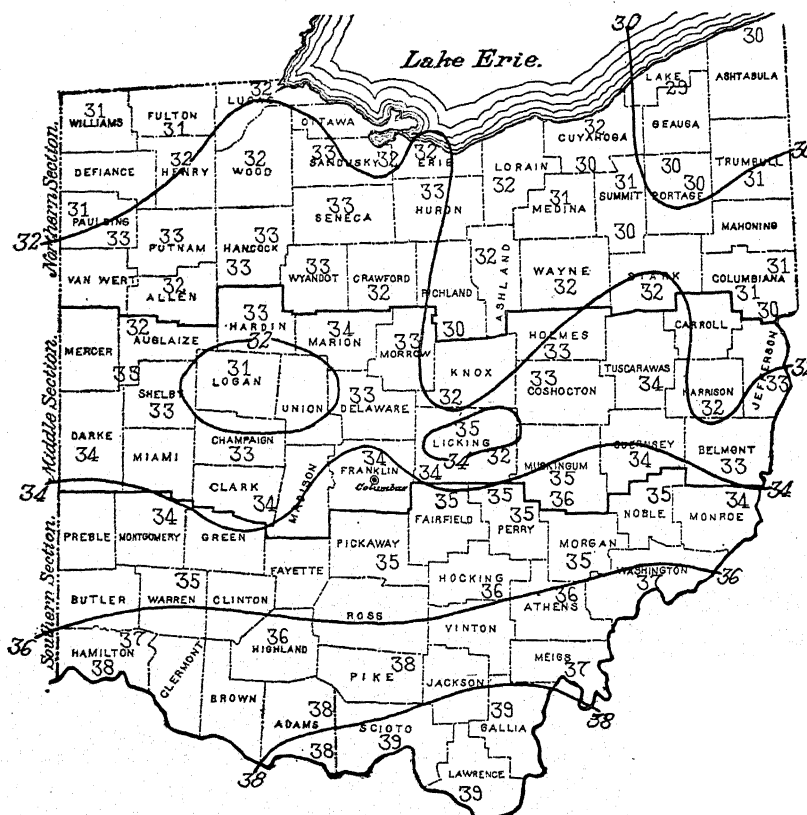


Figure 1. The mean temperature for the state for January was 33.4°. The highest local monthly mean was 39.0° at Thurman, Gallia county, and the lowest, 29.4° at Hillhouse, Lake county. The highest temperature during the month was 75° at Portsmouth on the 28th, and Clarington, on the 29th. The lowest was -17° at Garrettsville on the 14th. The coldest weather of the month was experienced on the 13th and 14th, and the warmest on the 27th, 28th and 29th.

Temperature departures, January, 1914

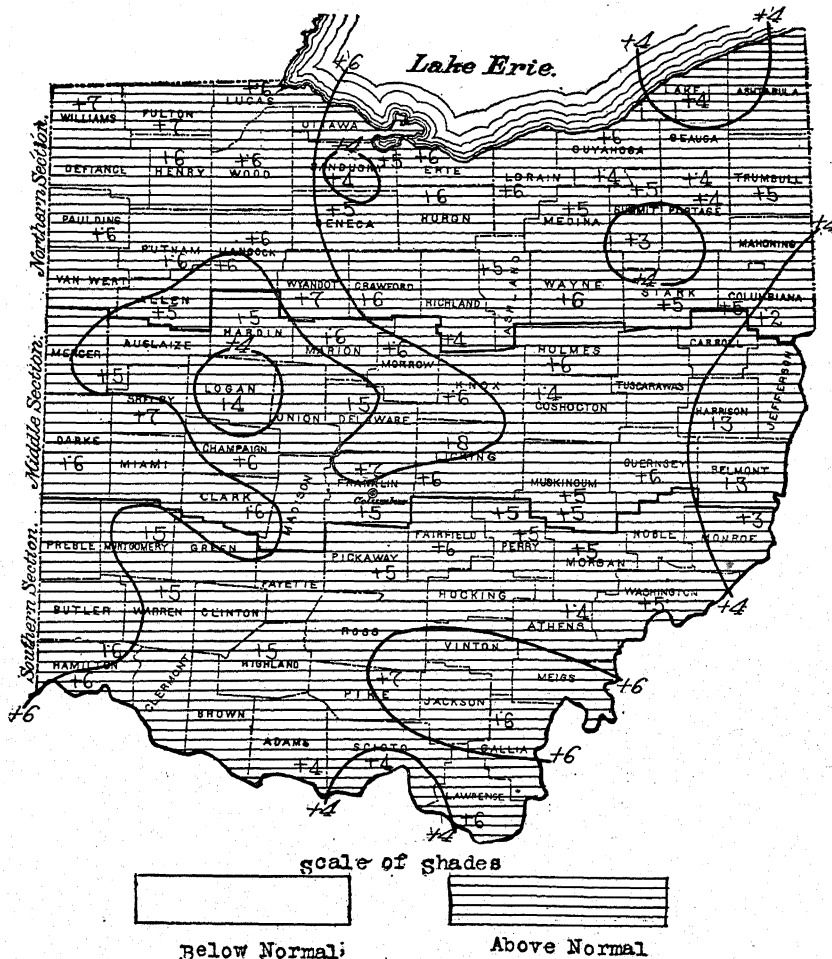


Figure 2. The mean temperature for the state as a whole was 5.2° above the normal. The daily temperatures were generally slightly above normal during the last two weeks. The weather was favorable for outdoor employment. Building operations were carried on during almost the entire month and in some counties considerable plowing was done.

Precipitation, January, 1914

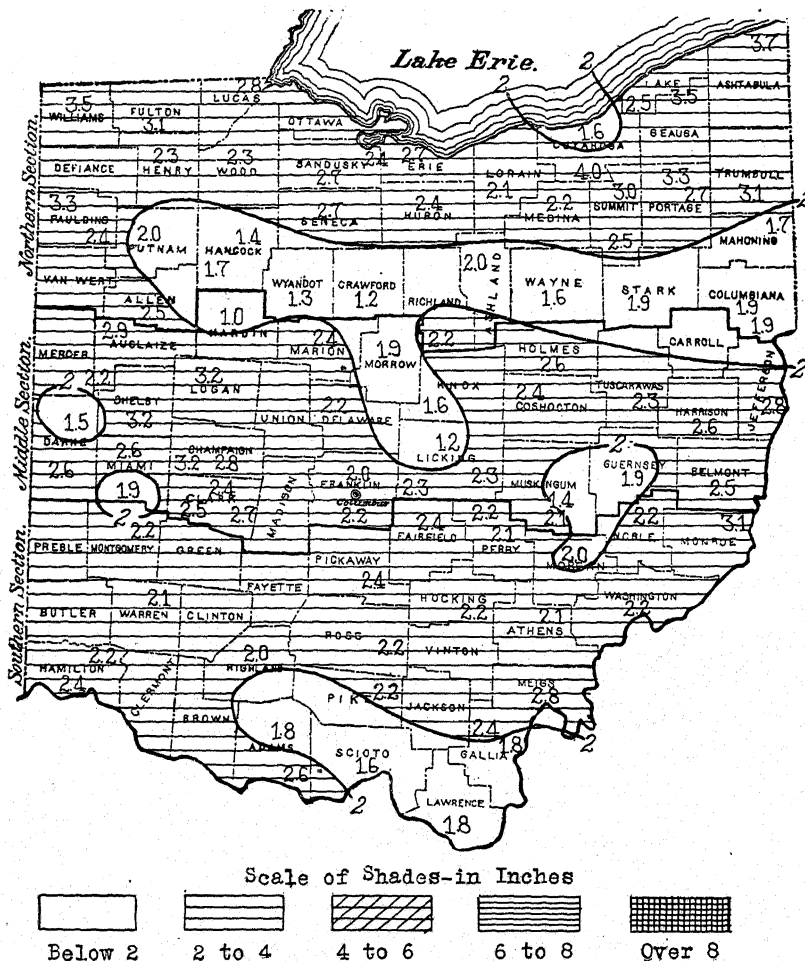


Figure 3. The average precipitation for the state was 2.30 inches. The largest amount reported was 3.95 inches in Cuyahoga county and the least 1.00 inch in Hardin county. A large proportion of the precipitation in the northern portion of the state occurred in the form of snow. A severe sleet and wind storm did much damage to telephone, telegraph and electric railway lines, and to trees in northwestern Ohio during the night of the 30th.

Precipitation departures, January, 1914



Snowfall, January, 1914

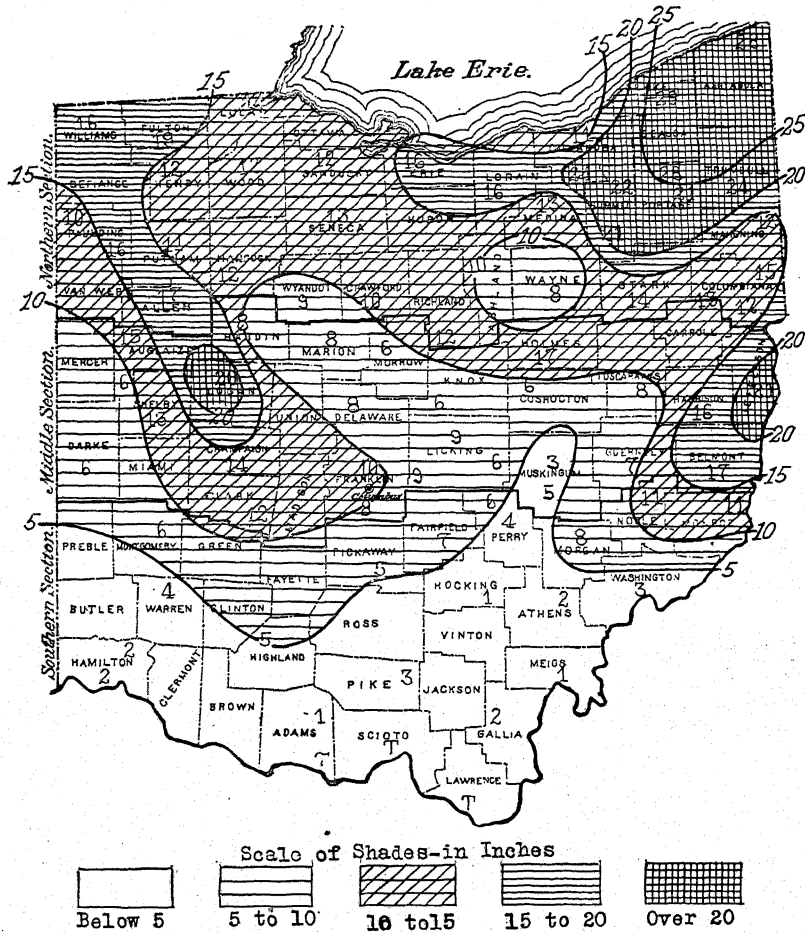


Figure 5. The average depth of snowfall for the month was 10.5 inches. The snowfall was above the normal in the northern and middle sections but considerably below the usual amount for January in the extreme southern counties. The greatest monthly total was 28.7 inches in Lake county. In the northeastern counties the ground was protected continuously during the first three weeks.

Mean temperature, February, 1914



Figure 6. The mean temperature for the state for February was 22.1°. The highest local monthly mean was 30.8° at Ironton, and the lowest, 17.5° at Wauseon. The highest temperature during the month was 67° at Ironton on the 22d, and the lowest, -24° at Garrettsville on the 25th. The mild weather of January continued nearly through the first week of February. Then on the 7th and 8th a severe cold wave swept over the state and from that time until near the close of the month cold weather prevailed almost continuously.

Temperature departures, February, 1914

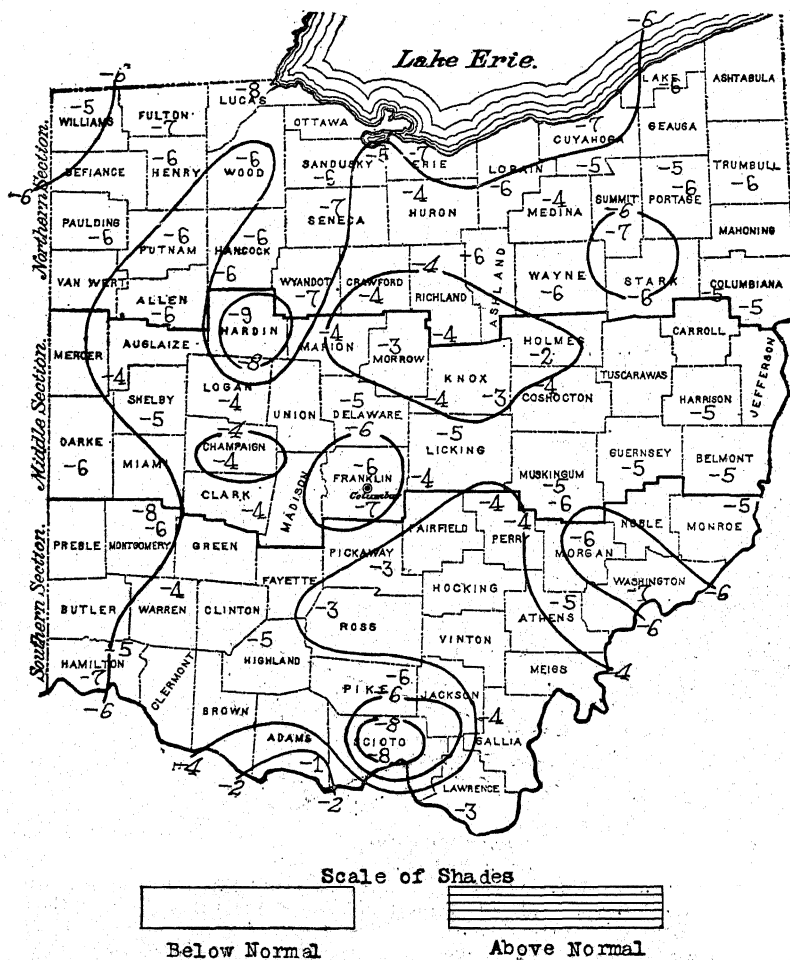


Figure 7. The mean temperature for the state was 5.3° below the normal. The coldest weather was experienced from the 8th to the 16th, and 23d to 25th, the 25th being the coldest day of the month in most sections of the state.

Precipitation, February, 1914

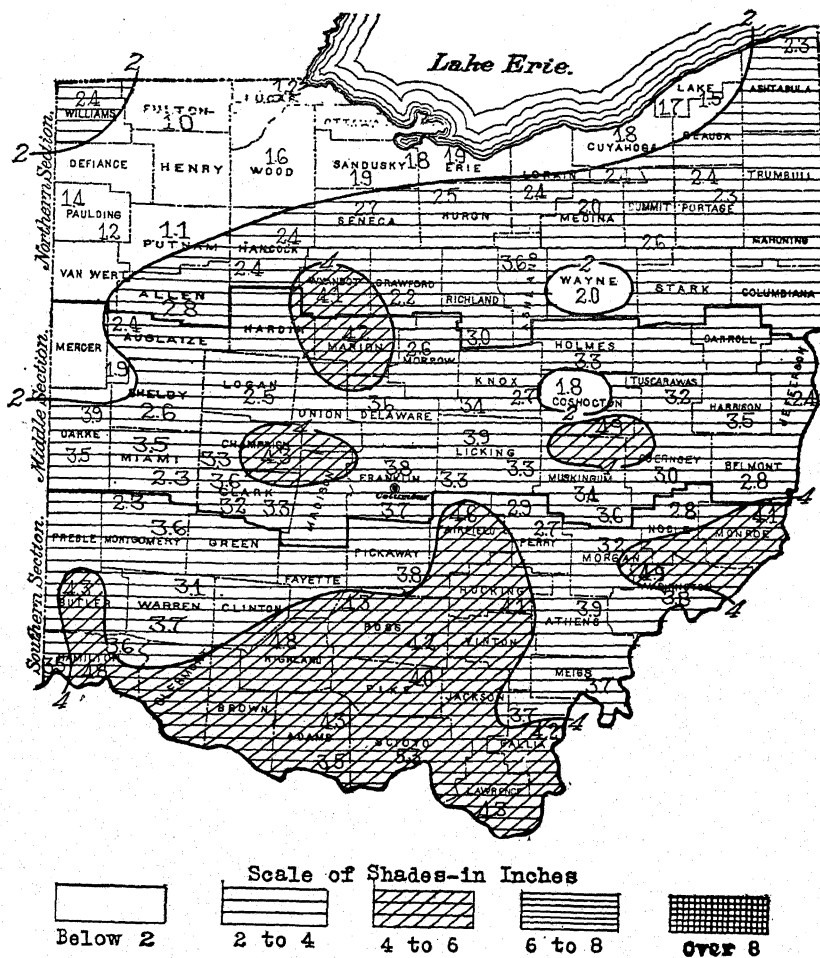


Figure 8. The average precipitation for the state for February was 3.04 inches. The largest amount reported was 5.27 inches at Portsmouth, and the least, 0.98 inch at Wauseon. A large proportion of the precipitation occurred in the form of snow. Sleet occurred in northwestern counties on the 6th, in southwestern counties on the 13th, and middle and southern counties on the 19th and 22d.

Snowfall, February, 1914

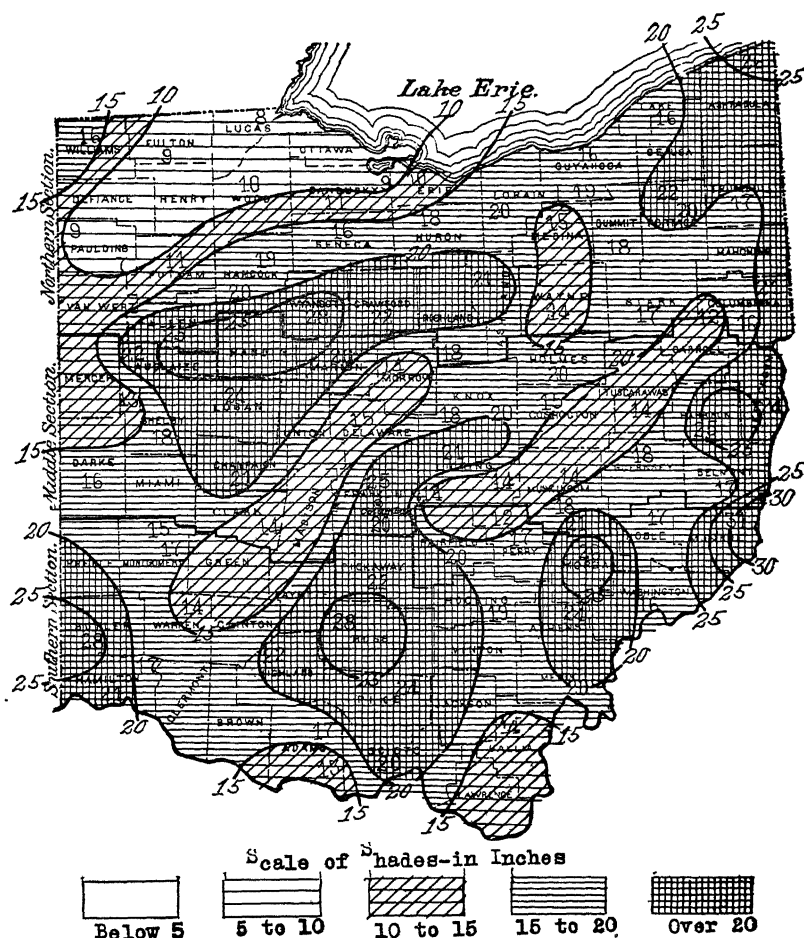


Figure 10. The average depth of snowfall for the state for February was 17.8 inches. It was above the normal amount for February in all but a few northwestern counties. Unusually heavy snowstorms occurred on the 13th and 14th, and 22d and 23d and traffic was badly delayed on practically all lines. The ground in all parts of the state was covered from the 13th to the close of the month.

Mean temperature, March, 1914



Figure 11. The mean temperature for the state for March was 36.0° . The highest local monthly mean was 40.7° at Green, Adams county, and the lowest, 31.0° at Hillhouse, Lake county. The highest temperature during the month was 78° at Syracuse on the 26th, and the lowest, -2° at Peebles on the 12th. With the exceptions of the 14th, 15th and 16th, cold weather prevailed from the 1st to the 24th.

Temperature departures, March, 1914

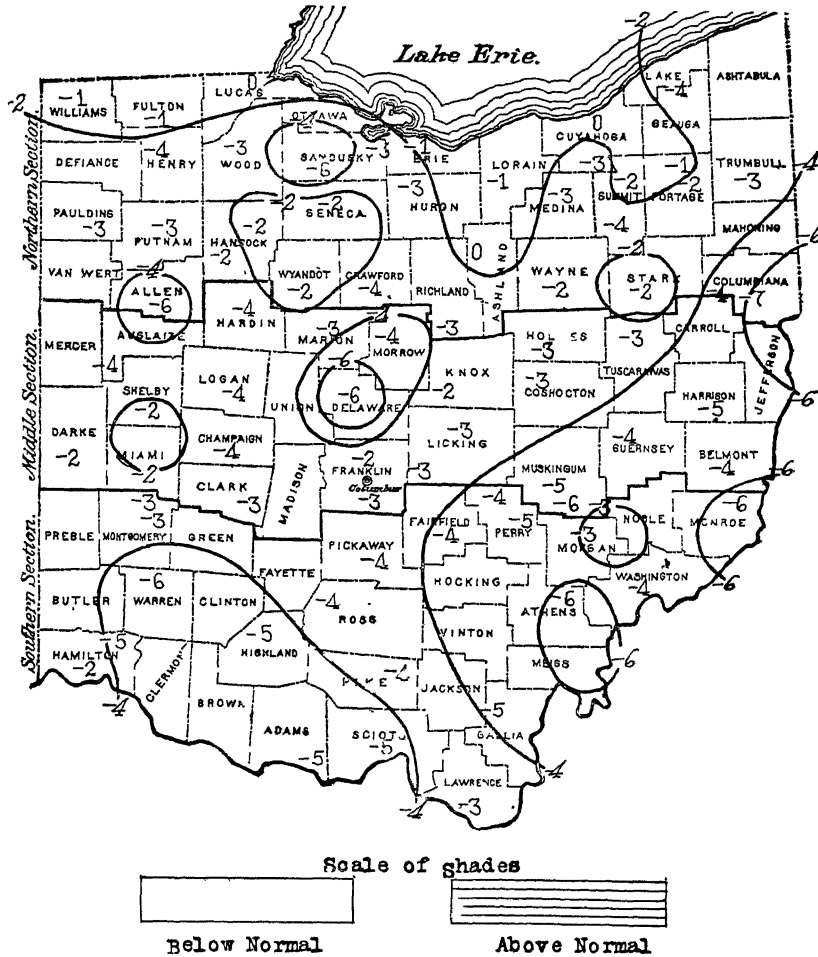


Figure 12. The mean temperature for the state as a whole was 3.4° below normal. The weather was exceptionally cold on the 2d, 19th and 20th, when the mean temperatures were from 15 to 20 degrees below normal. Much milder weather prevailed during the last week.

Precipitation departures, March, 1914



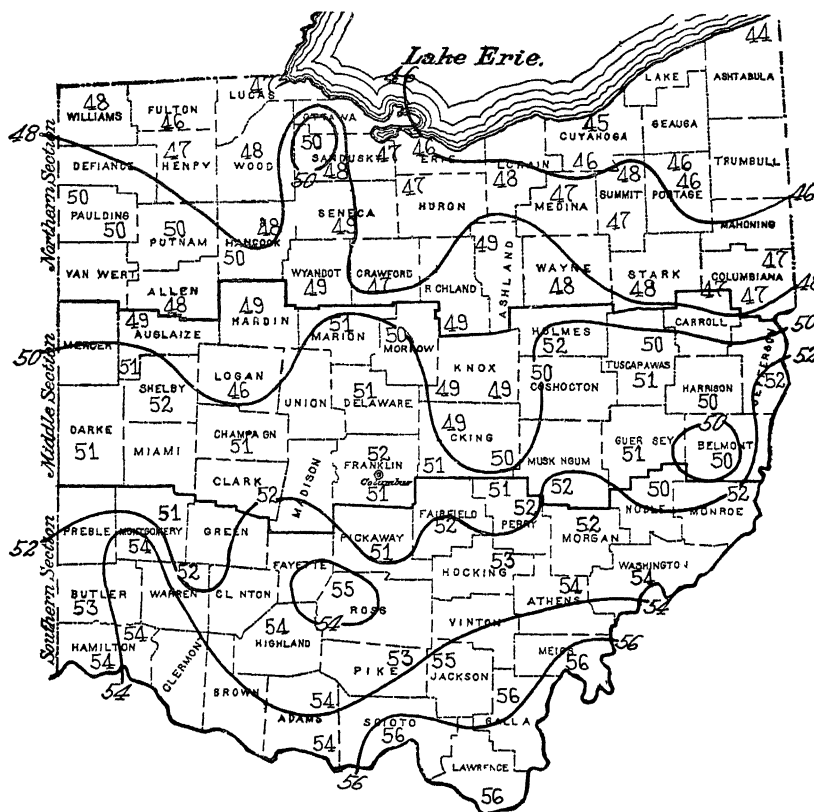
Figure 14 The precipitation averaged 1.04 inch below the normal. It was deficient in all but a few northern counties.

Snowfall, March, 1914



Figure 15. The average snowfall for March was 4.8 inches. The greatest amount reported was 19.4 inches in Trumbull county. Snow fell quite frequently during the first three weeks and the ground in the northeastern part of the state was well protected during the most of that time.

Mean temperature, April, 1914



Temperature departures, April, 1914

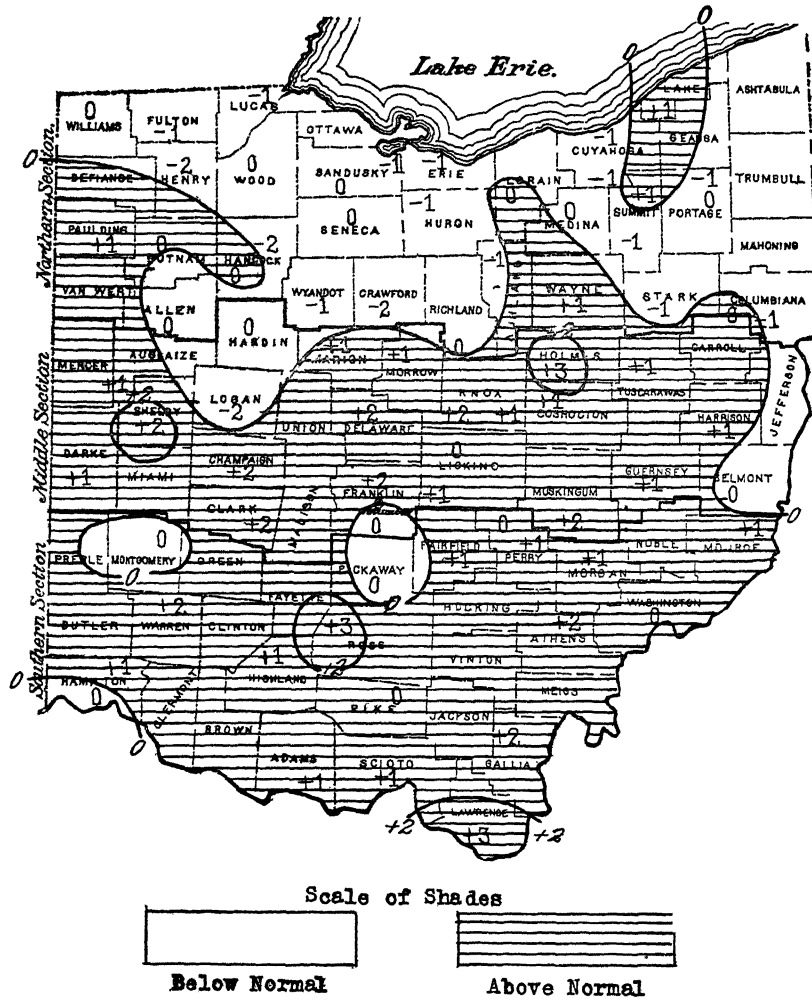


Figure 17. The mean temperature for the state was 0.4° above the normal. The monthly mean temperatures for the stations in the northern counties showed a general deficiency but at most of the middle and southern stations there was an excess, so that the range in temperature between the northern and southern parts of the state was greater than usual.

Precipitation, April, 1914



Figure 18. The precipitation in April averaged 4.01 inches. The largest amount reported was 6.83 inches in Summit county and the least, 2.42 inches in Pickaway county. Rains were frequent and in the northern district some of them were heavy.

Snowfall, April, 1914



Figure 20. The average snowfall for the month was 0.8 inch. It ranged from 4.5 inches in Portage county to traces in the southern and western counties. The most of the snow fell on the 5th and 8th.

Mean temperature, May, 1914

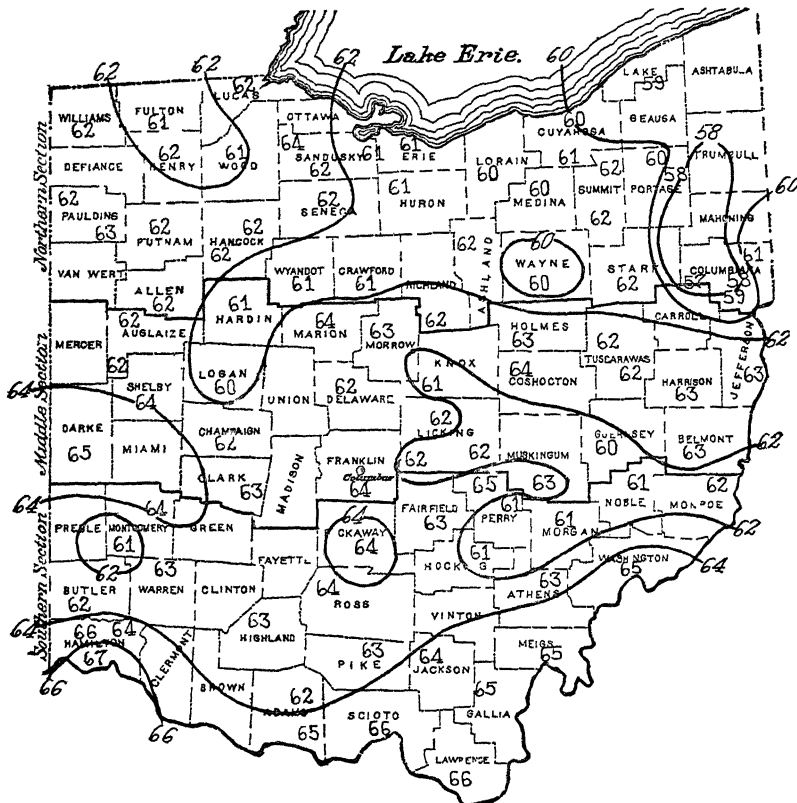


Figure 21. The mean temperature for the state for May was 62.2°. The highest local monthly mean was 66.8° at Cincinnati, and the lowest, 57.4° at Green Hill, Columbiana county. The highest temperature during the month was 102° at Brilliant on the 29th, and the lowest, 26° at Lisbon on the 1st and 2d. Cold weather prevailed on the 1st and 2d and freezing temperatures or frost were general on both dates. The weather was cold again on the 8th, 9th, and from the 12th to the 17th. An unusually hot spell set in on the 25th that lasted through the 29th.

Temperature departures, May, 1914

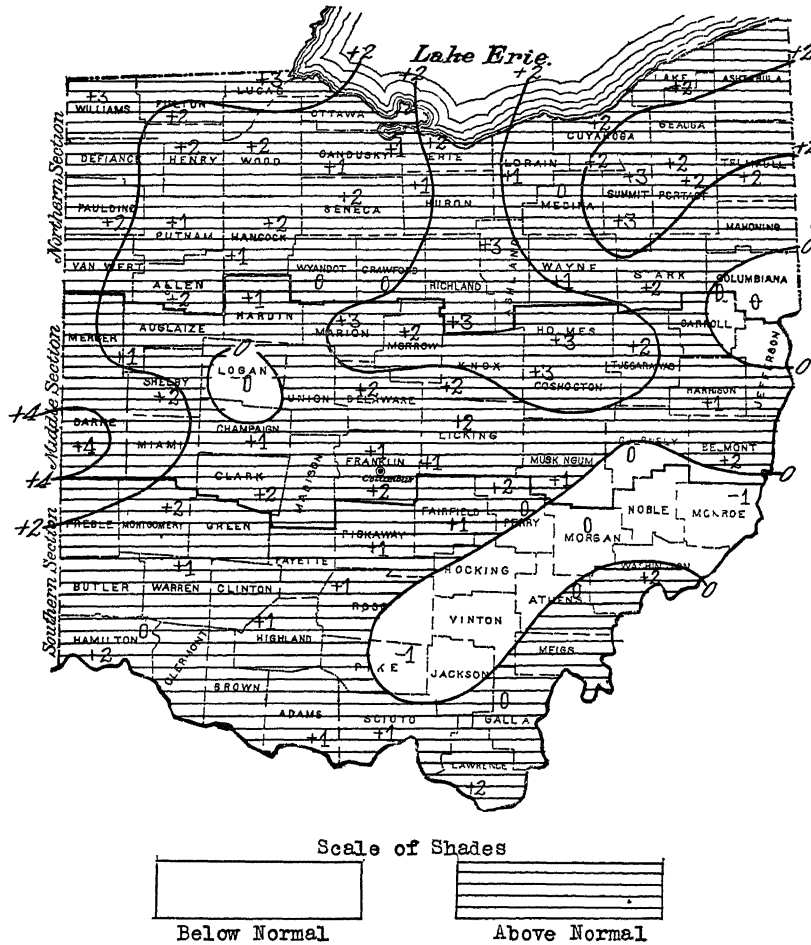


Figure 22. The mean temperature for the state was 1.4° above the normal. The greatest excess in temperature occurred in the northern counties, where in some localities it was more than three degrees above the normal.

Precipitation, May, 1914

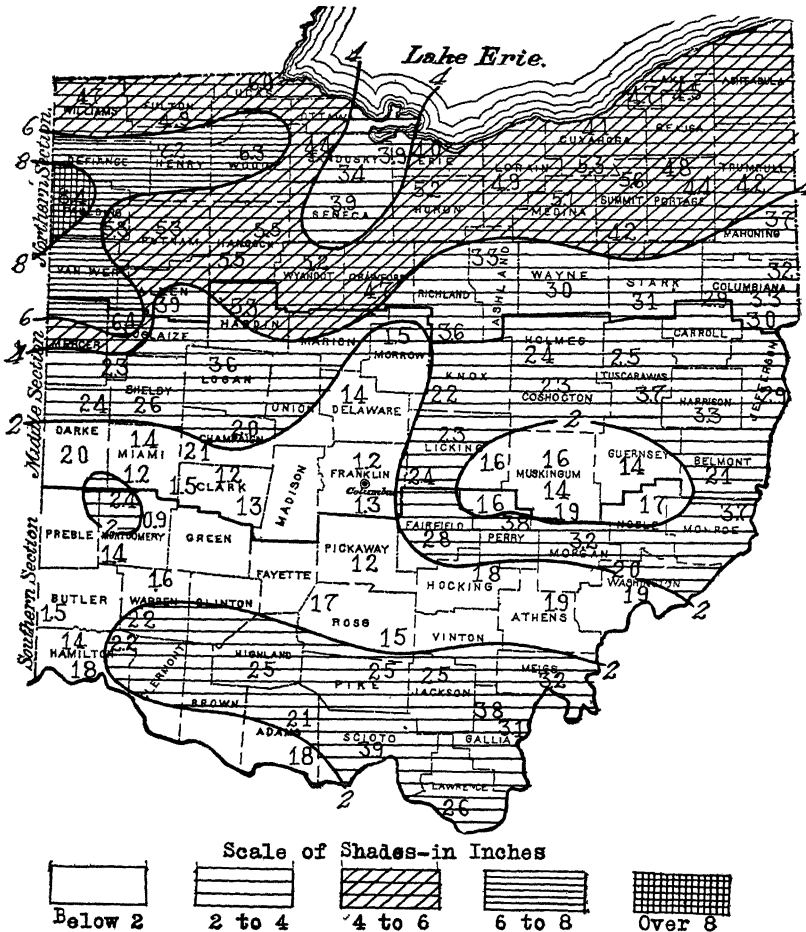


Figure 23. The average precipitation for the state for May was 3.11 inches. The greatest amount reported was 8.45 inches in Paulding county, and the least, 0.94 inch in Montgomery county. The most of the rainfall occurred between the 4th and the 14th. There were several light rains in northern and middle counties during the last half of the month, but in much of the southern section there was no rainfall after the 12th, and in a few western counties no rain fell after the 8th.

Precipitation departures, May, 1914

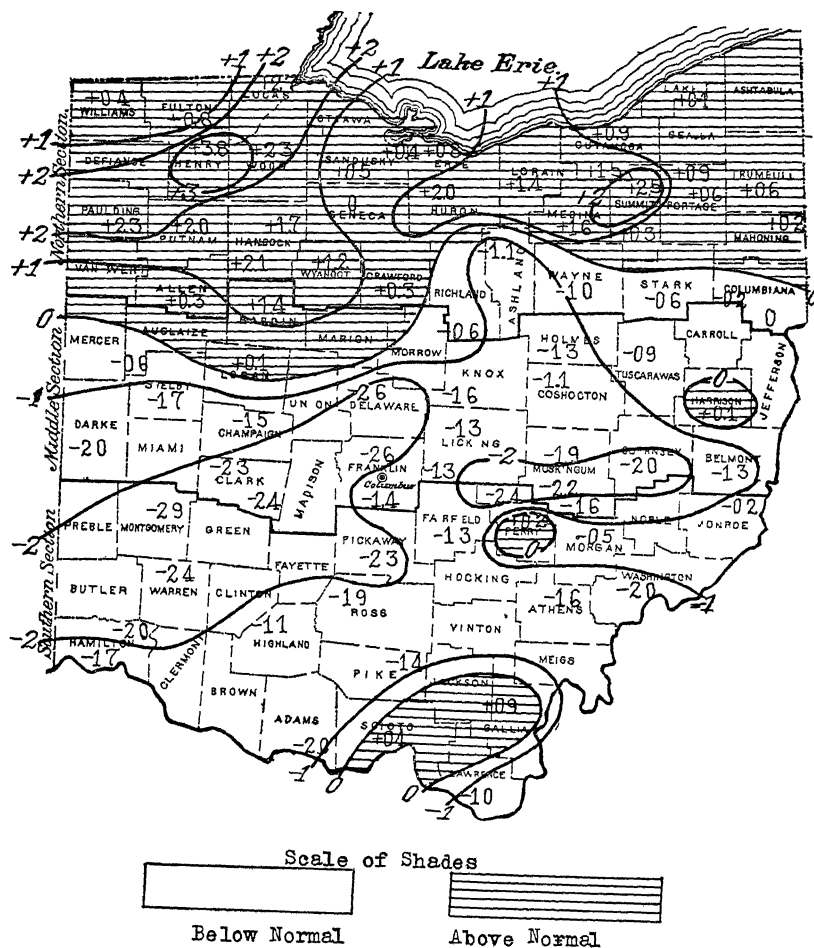


Figure 24. The precipitation for the state as a whole averaged 0.36 inch below normal. It was much heavier in the northern part of the state than in the middle and southern sections, the deficiency in the middle and southern sections averaging about 1.40 inches. The hot weather of the last week caused droughty conditions in many of the southern counties.

Mean temperature, June, 1914



Figure 25. The mean temperature for the state for June was 71.1° . The highest local monthly mean was 76.8° at Ironton, Lawrence county, and Portsmouth, Scioto county, and the lowest was 66.1° at Garrettsville, Portage county. The highest temperature during the month was 104° at Syracuse on the 25th and the lowest, 32° at Green Hill and Millport on the 17th. Excessively warm weather prevailed from the 7th to the 11th and from the 21st to the 27th. Cool weather prevailed from the 15th to the 20th and from the 28th to the 30th. Light frost occurred on the 17th and 20th in some of the northern and middle counties.

Temperature departures, June, 1914

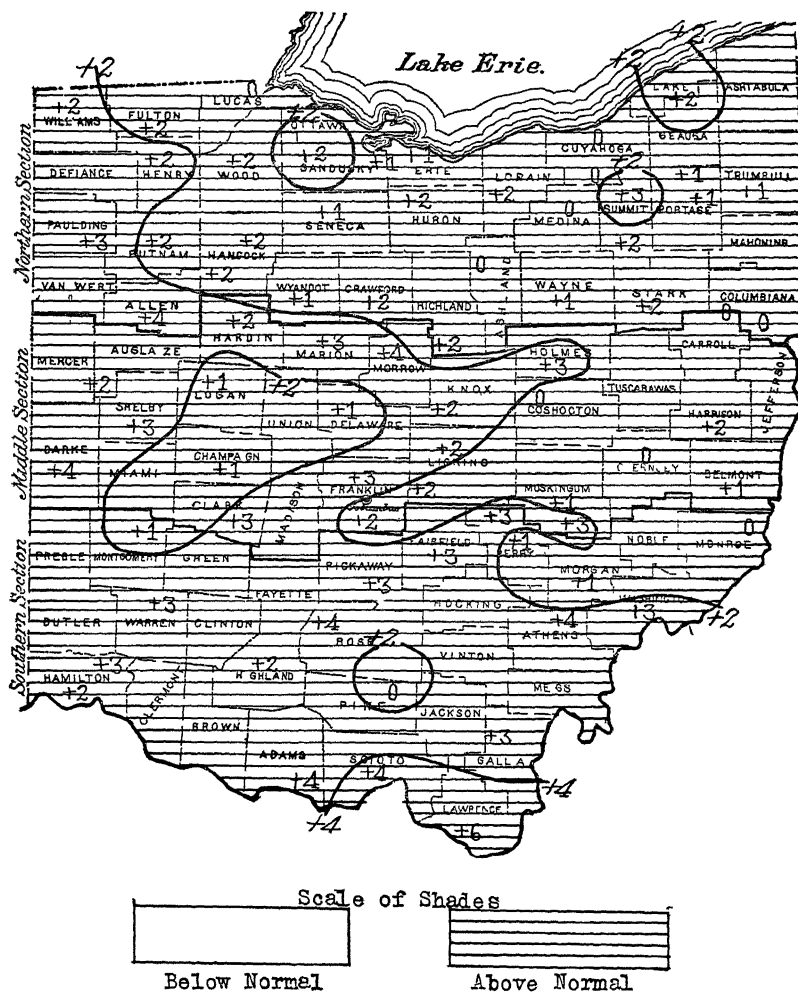


Figure 26. The mean temperature for the state was 1.9° above the normal. The temperature was above normal in all sections, but the greatest excess occurred in the extreme southern part of the state, the monthly mean being 4.2° above normal at Portsmouth and 5.5° above at Ironton.

Precipitation departures, June, 1914

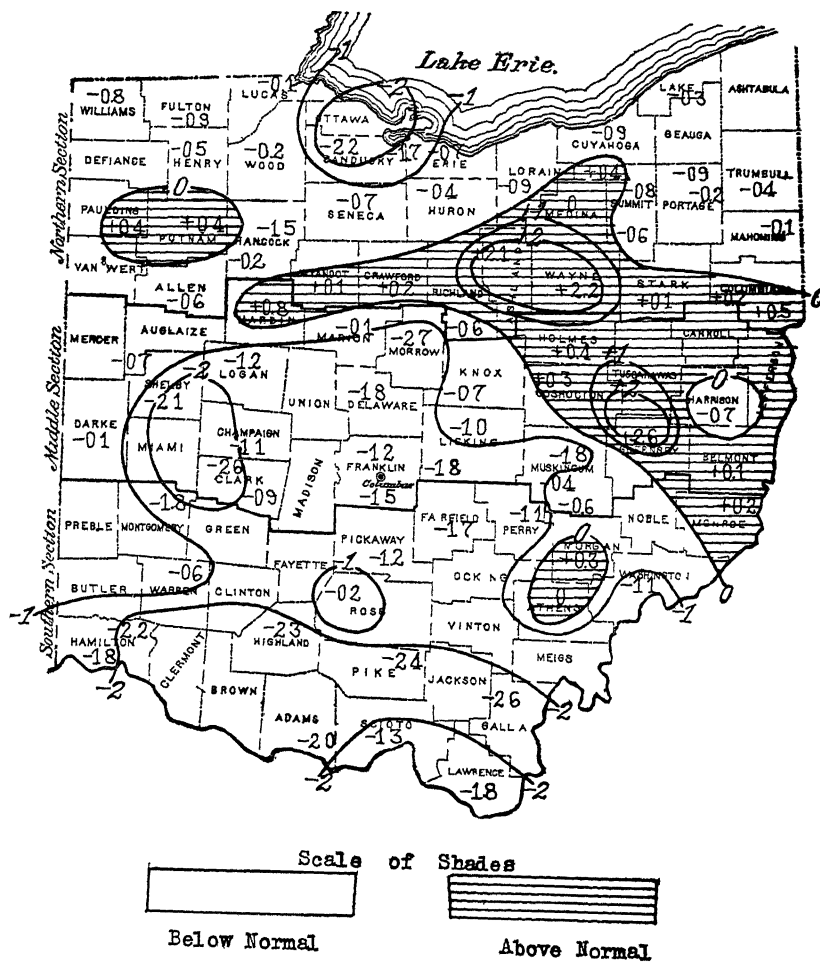


Figure 28. The precipitation averaged 0.68 inch below the normal. The greatest deficiency occurred in the southern counties from Hamilton to Gallia.

Temperature departures, July, 1914

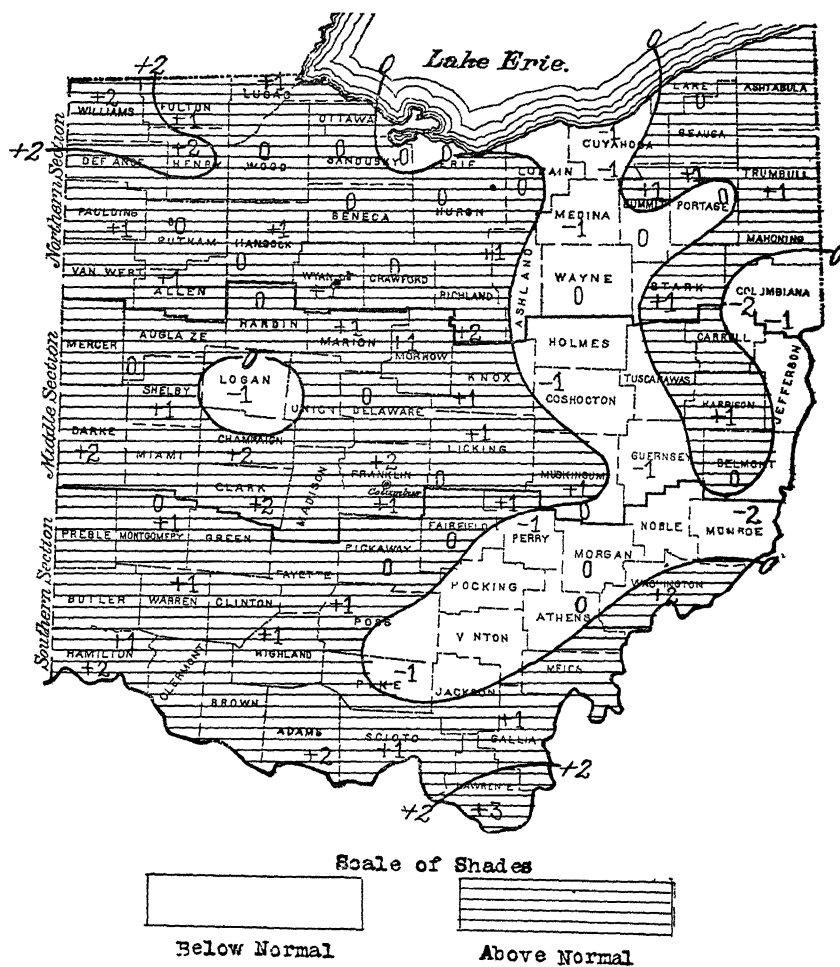


Figure 30. The mean temperature for the state was 0.5° above the normal, making this the fourth successive month with excess in temperature. There was a slight deficiency in the Cuyahoga, Muskingum and upper Ohio watersheds, but a general excess in the middle and western counties.

Precipitation, July, 1914

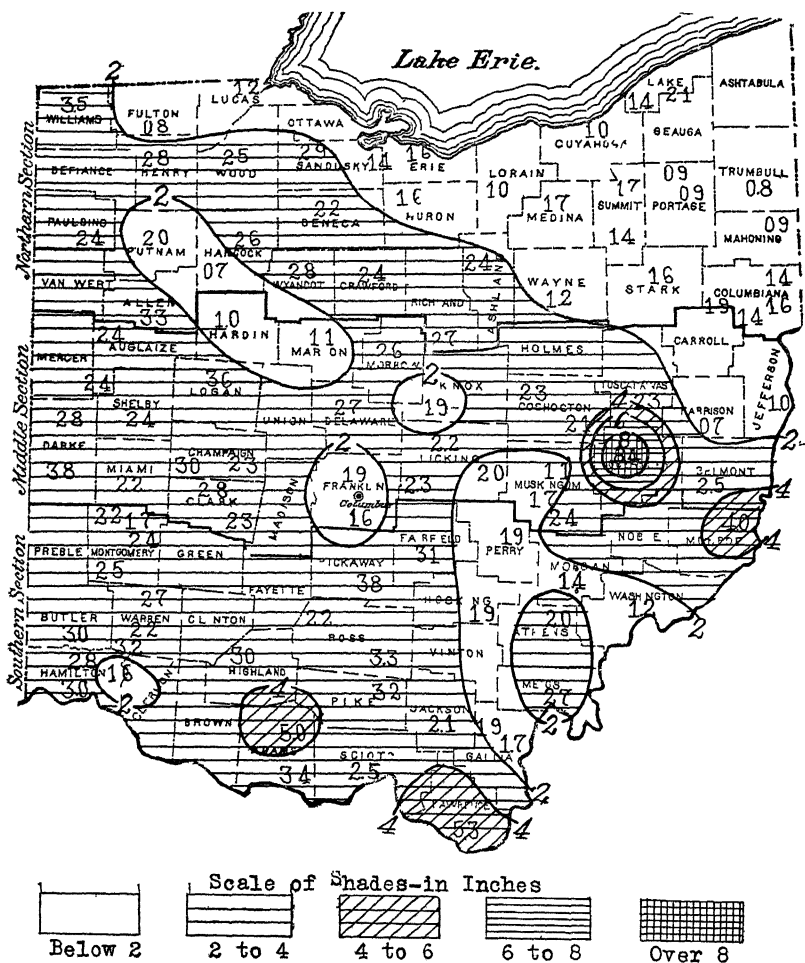


Figure 31. The average precipitation for the state for July was 2.19 inches. The greatest monthly total was 8.36 inches in Guernsey county, and the least, 0.72 inch in Hancock and Harrison counties. There were two exceptionally heavy rainfalls during the month. The first was in Lawrence county on the 13th and 14th, when 4.29 inches fell in less than 24 hours, and the second was in Guernsey county on the 16th, when 7.09 inches fell in one and one-half hours.

Precipitation departures, July, 1914

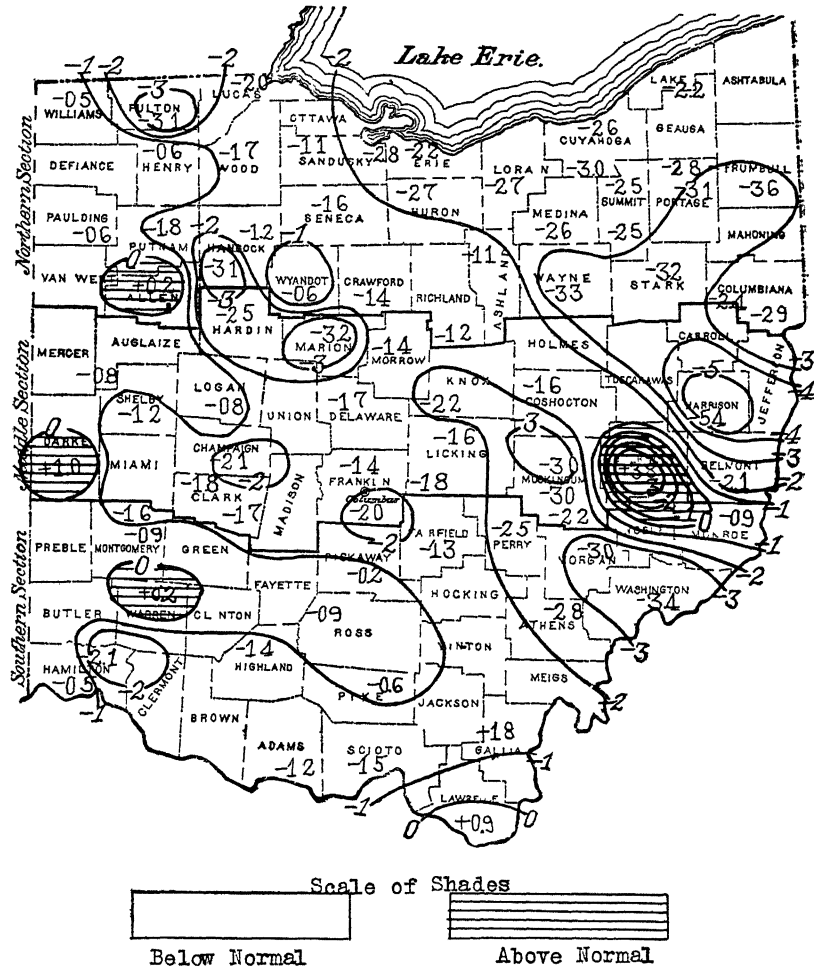


Figure 32. The precipitation averaged 1.80 inches below the normal. This was one of the driest Julys of which there is record in Ohio. In some of the northern and extreme eastern counties the rainfall was only about one-third the usual amount for July. In some of the southern counties the deficiency for the three months of May, June and July was over six inches.

Mean temperature, August, 1914

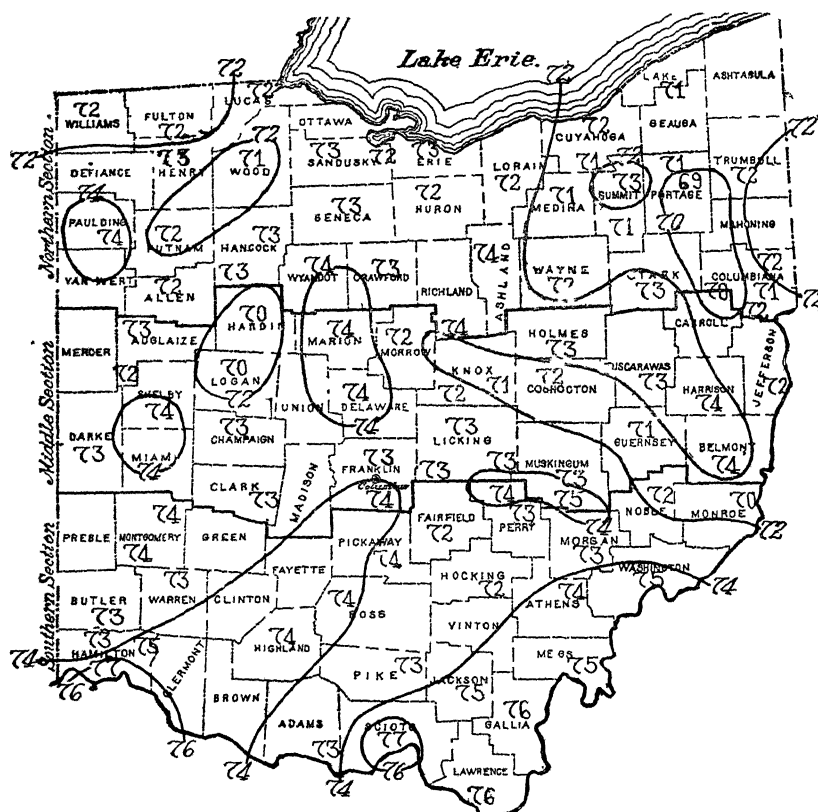


Figure 33. The mean temperature for the state was 72.8°. The highest local monthly mean was 76.8° at Portsmouth, and the lowest, 69.4° at Garrettsville, Portage county. The highest temperature during the month was 101° at Amesville and Upper Sandusky on the 19th. The lowest was 41° at Akron on the 26th. There were but few exceptionally warm days and no unusually cool days. The warmest periods were the 6th to 10th, and 17th to 23d.

Temperature departures, August, 1914

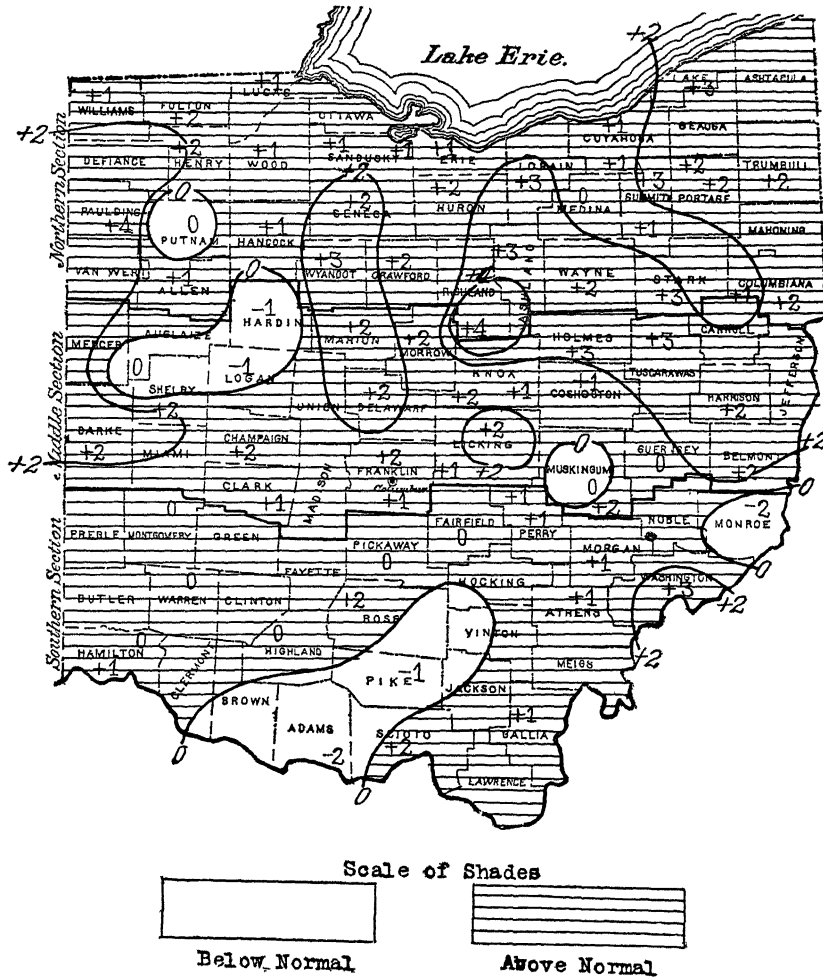


Figure 34. The mean temperature for the state was 1.4° above the normal. The temperature was above normal in nearly all portions of the state, but the greatest excess occurred in the middle and northeastern counties.

Precipitation, August, 1914

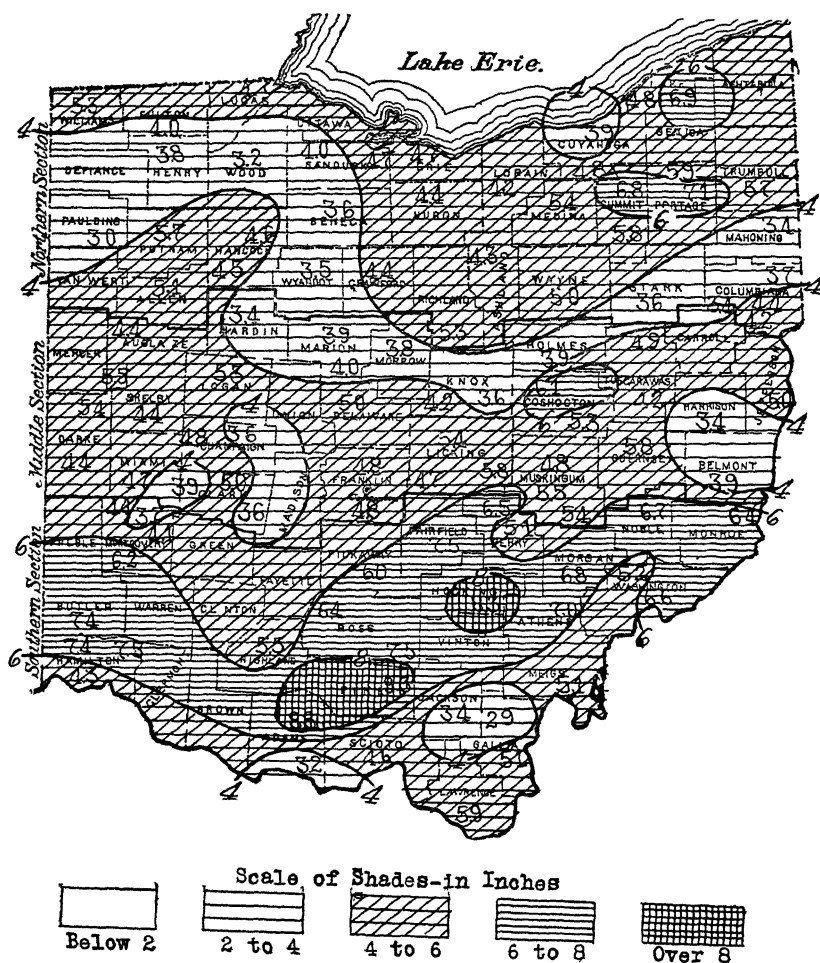
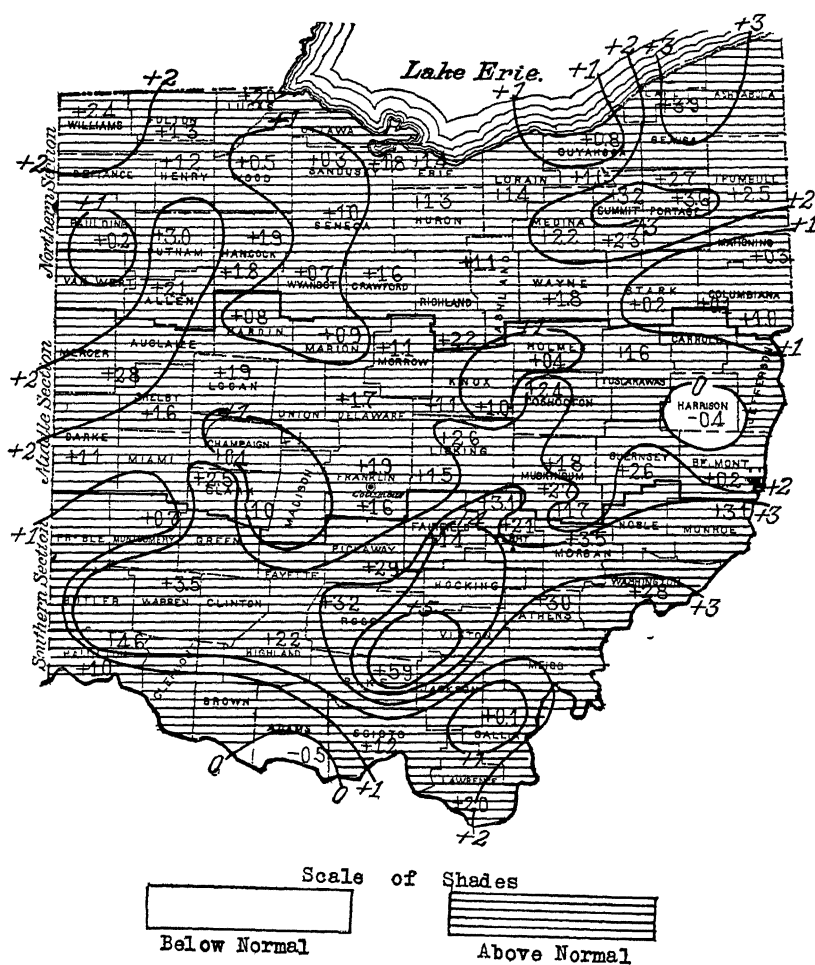
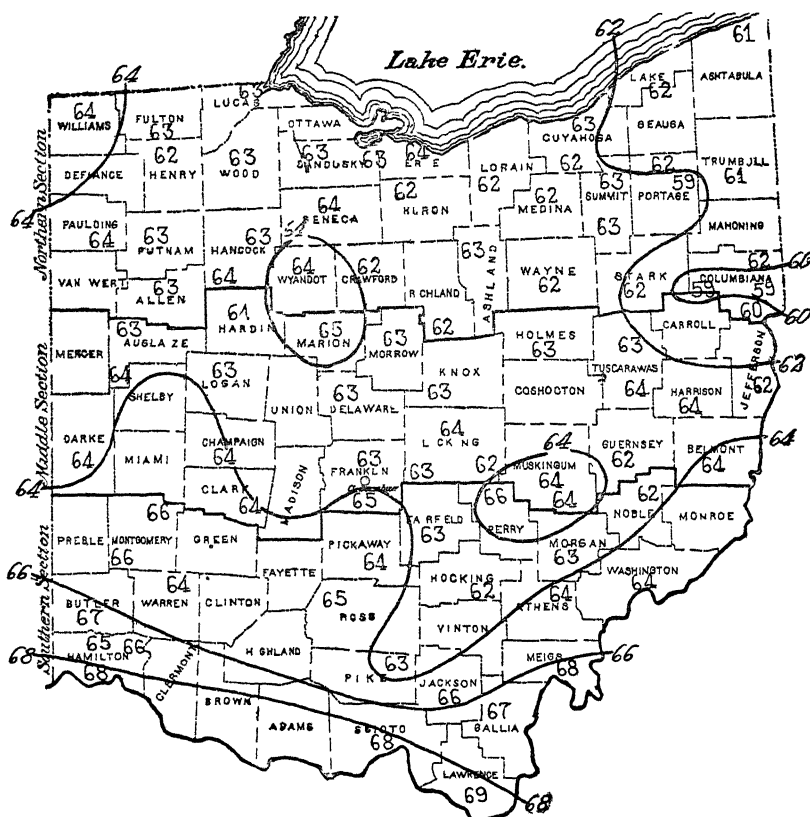


Figure 35. The average precipitation for the state was 5.08 inches. The greatest monthly total was 9.26 inches in Pike county, and the least, 2.88 inches in Gallia county. The droughty conditions prevailing at the close of July continued through the first week of this month; but during the second and third weeks they were greatly relieved by moderate rains, and on the 28th and 29th the drought was completely broken by good rains that fell in all portions of the state.

Precipitation departures, August, 1914



Mean temperature, September, 1914



Temperature departures, September, 1914



Figure 38. The mean temperature for the state was 2.2° below the normal. With the exception of the 1st, 2d and 6th, the temperature was below normal throughout the first two weeks, and the weather was unseasonably cool from the 8th to the 12th. Warmer weather prevailed during the third week, but from the 23d to the close of the month the daily temperatures were again generally below the normal.

Precipitation departures, September, 1914

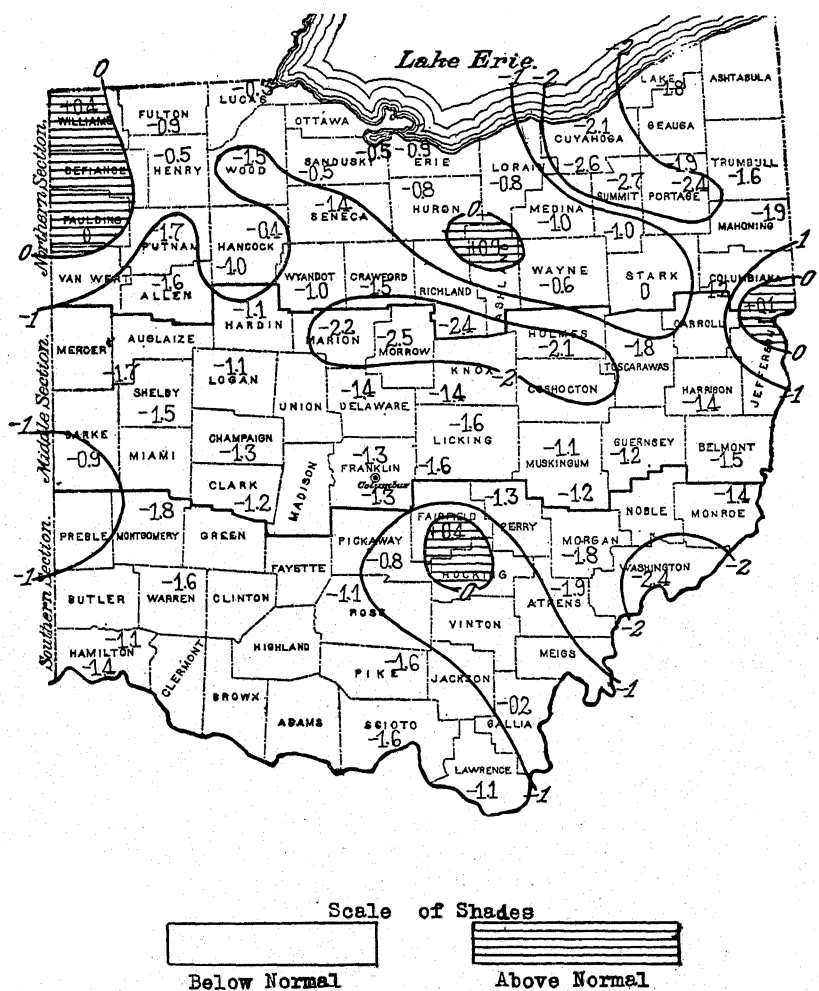


Figure 40. The precipitation averaged 1.28 inches below the normal.. It was deficient in nearly all parts of the state, but the greatest deficiency was in some of the middle and northeastern counties.

Mean temperature, October, 1914



Figure 41. The mean temperature for the state was 56.9°. The highest local monthly mean was 60.5° at Cincinnati and the lowest was 54.4° at Garrettsville, Green Hill and Lisbon. The highest temperature during the month was 91° at Portsmouth on the 7th and the lowest was 17° at Bellefontaine on the 27th. Frost occurred in many northern counties on the 2d and 25th, and in a few localities on the 12th and 18th, but it did little damage. On the night of the 26th the temperature fell below the freezing point in practically all parts of the state and on the following morning killing frost was reported in every county.

Temperature departures, October, 1914



Figure 42. The mean temperature for the state was nearly four degrees above the normal. The daily temperatures were above normal almost continuously from the 3d to the 24th, inclusive; but during the last week they were much lower.

Precipitation departures, October, 1914

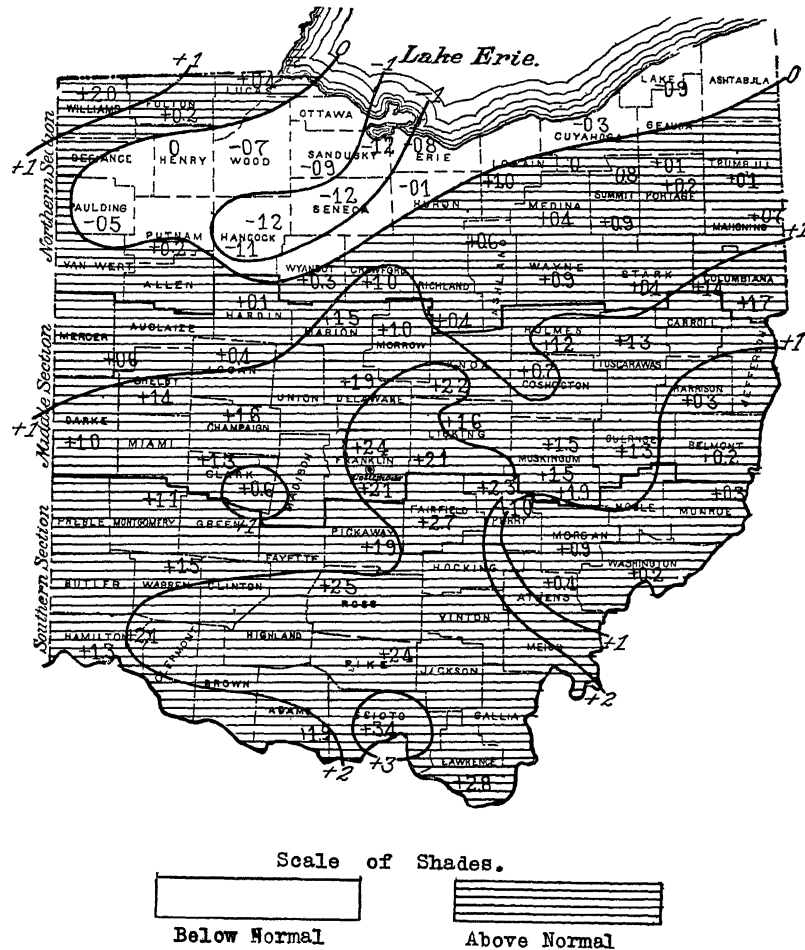


Figure 44. The precipitation averaged 0.82 inch above the normal. In general the greatest excess occurred in the Scioto watershed and the greatest deficiency in the northern counties.

Snowfall, October, 1914



Figure 45. There was but little snowfall during the month. While there was a fall of several inches in a few northeastern counties, in most of the state there was no more than a trace and it practically all occurred on the 27th.

Mean temperature, November, 1914

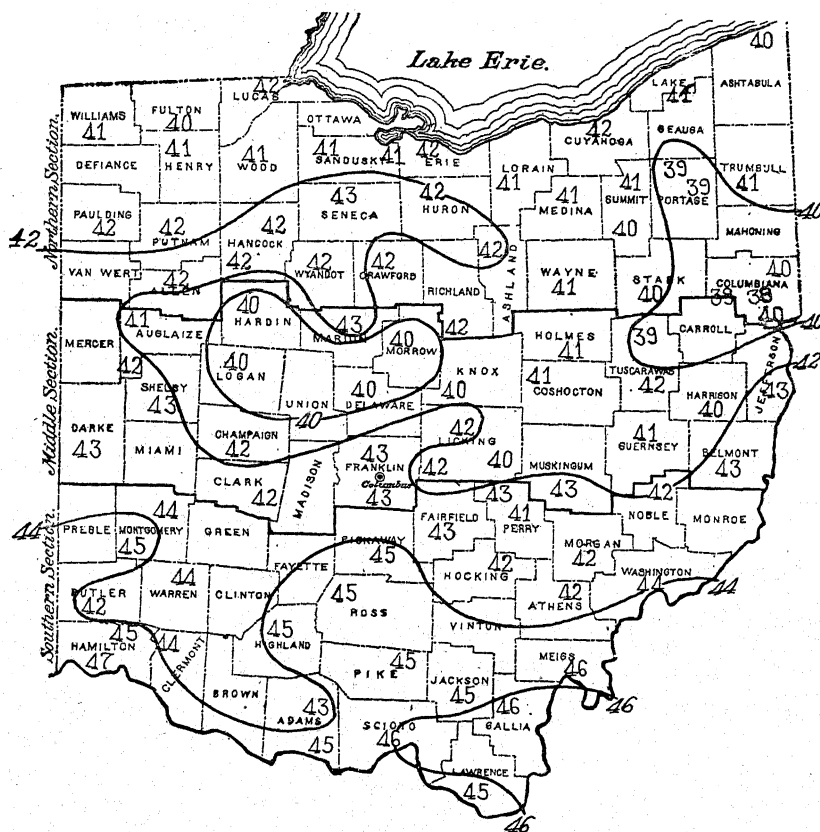


Figure 46. The mean temperature for the state was 42.1°. The highest local monthly mean was 46.7° at Cincinnati, and the lowest was 38.4° at Lisbon, Columbiana county. The highest temperature during the month was 80° at Upper Sandusky on the 7th and the lowest was 5° at Bellefontaine on the 20th. The 7th was one of the warmest November days of which there is record in Ohio and the 19th and 20th were exceptionally cold for the time of year. At Columbus the minimum temperature on the 20th was the lowest for so early in the season since 1880.

Temperature departures, November, 1914



Figure 47. The mean temperature for the state was 1.1° above the normal. The daily temperatures were above normal during the first week, from the 11th to the 15th, and from the 24th to the close of the month.

Precipitation, November, 1914

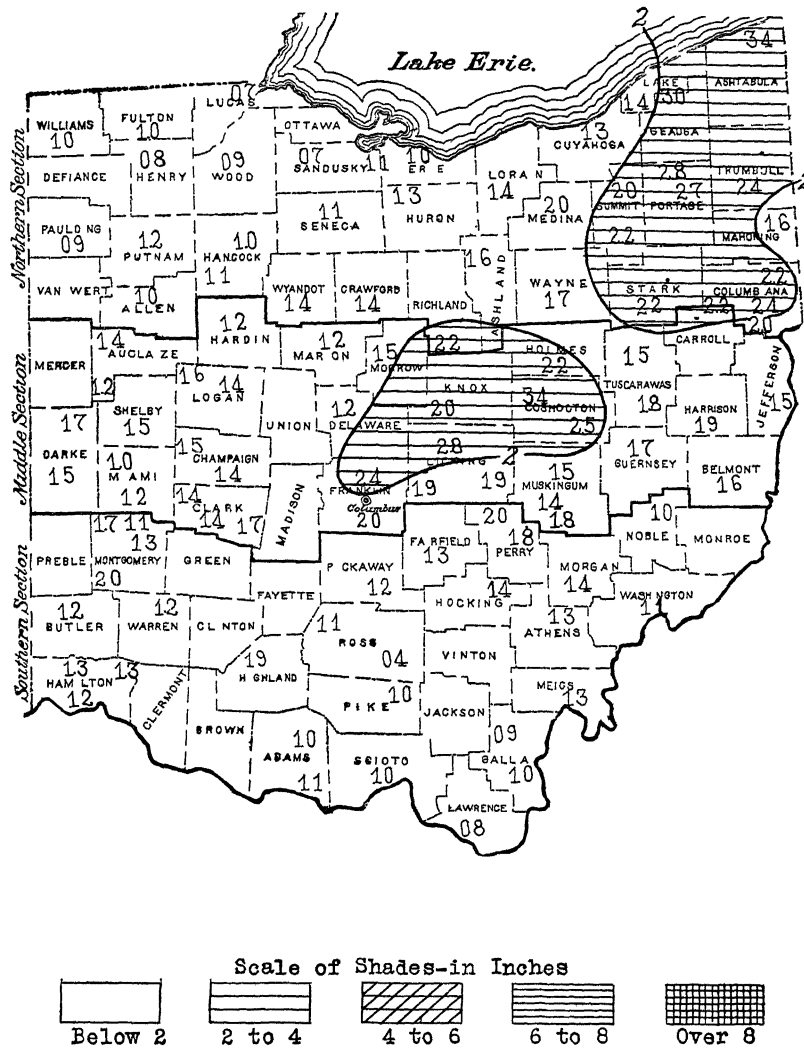


Figure 48 The average precipitation for the state was 1.53 inches. There was less than two inches in all but a few northeastern counties while in a number of southern and western counties the total amount for the month was less than one inch. The most of it occurred on the 8th, 15th, 16th, 29th and 30th. There were but few stormy days and outdoor work was carried on with little interruption.

Precipitation departures, November, 1914

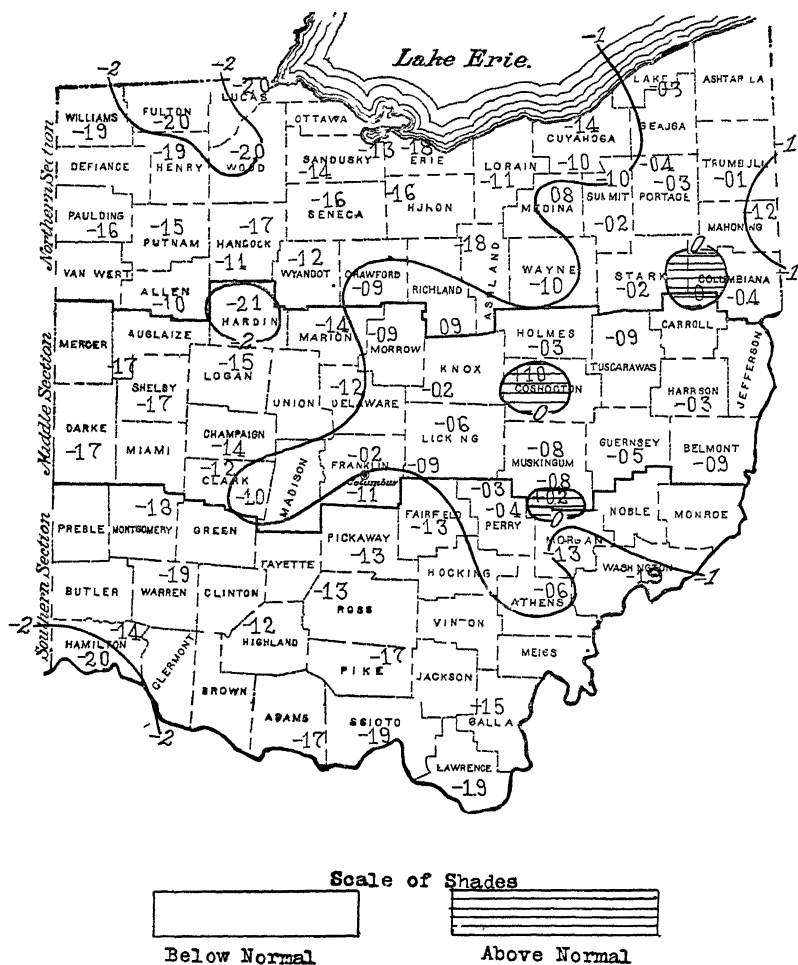


Figure 49. The precipitation averaged 1.11 inches below the normal. It was deficient in practically all parts of the state.

Snowfall, November, 1914



Figure 50. The average snowfall for the state was 0.9 inch. It fell on several dates, but in most instances it was very light and the total for the month was below normal, except along the eastern lake shore where several heavy snow storms occurred during the third week. The greatest monthly amount was 18.0 inches at Hillhouse, Lake county.

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Figure 51. The mean temperature for the state was 27.0°. The highest local monthly mean was 33.2° at Portsmouth and the lowest was 22.0° at Wauseon. The highest temperature during the month was 74° at Syracuse, Meigs county, on the 2d and the lowest was -19° at Bowling Green on the 26th. Moderate temperatures prevailed during the first ten days but the rest of the month was cold. A cold wave spread across the state on the 14th and from then until the 18th the minimum temperatures generally were close to or below the zero mark, making it one of the coldest periods on record for December.

Temperature departures, December, 1914

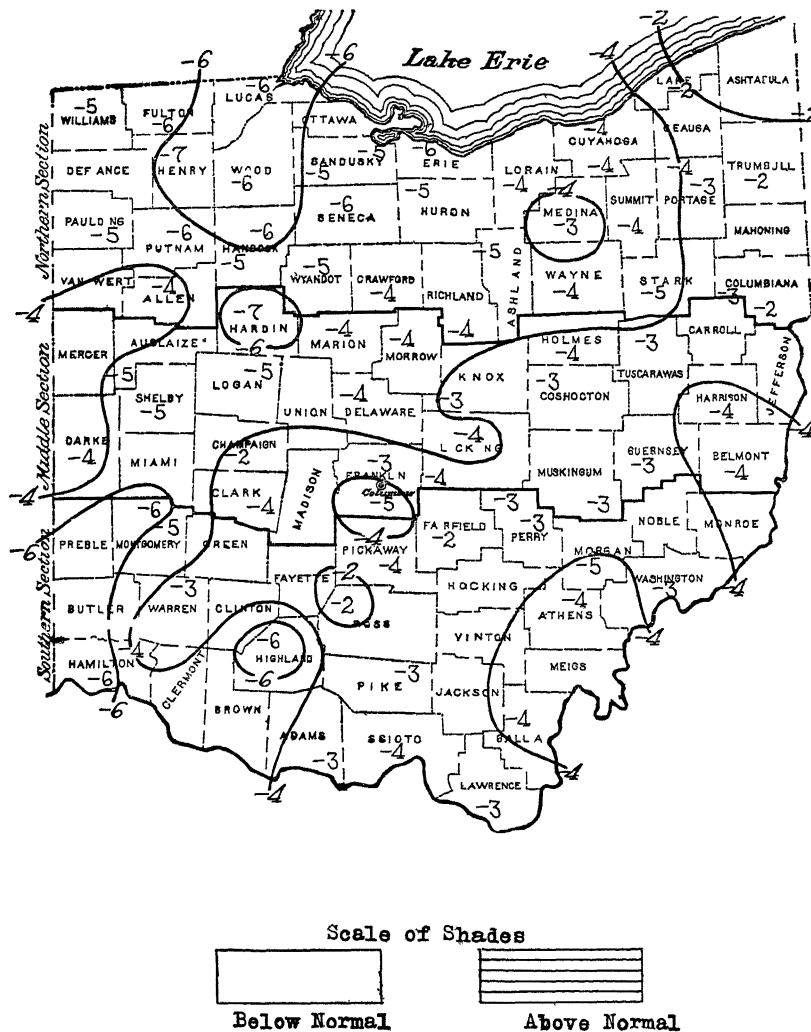


Figure 52. The mean temperature for the state was 4.2° below the normal. With the exception of the 28th and 29th the daily temperatures were below normal continuously from the 10th to the end of the month.

Precipitation departures, December, 1914

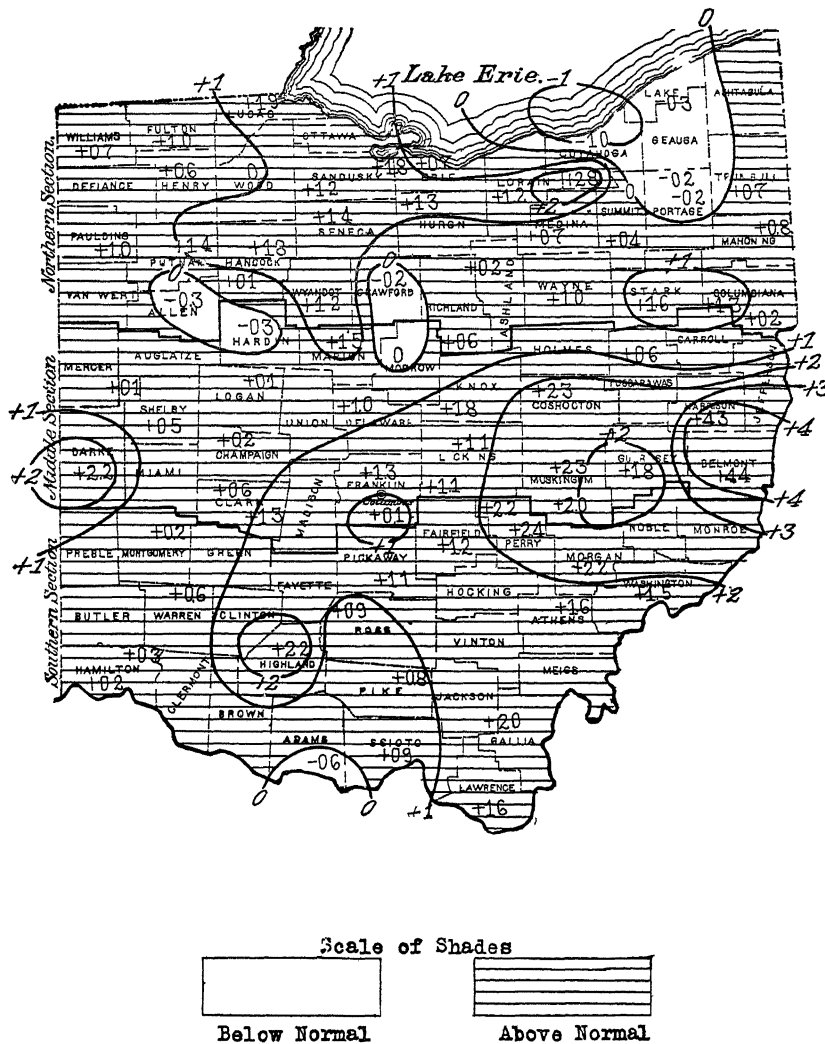


Figure 54. The precipitation averaged 0.98 inch above the normal. It was above normal in nearly all sections of the state, the greatest excess occurring in Belmont and Harrison counties.

Snowfall, December, 1914

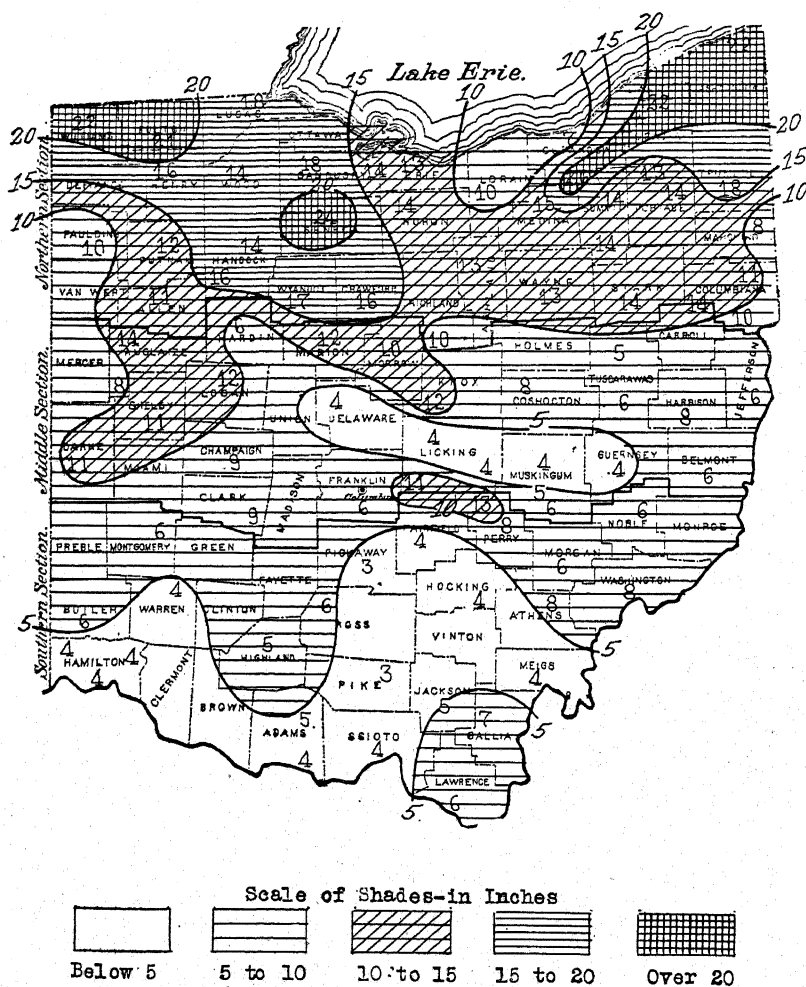


Figure 55. The average snowfall for the state was 9.9 inches. It was about normal in the southern counties and much above normal in many of the northern counties. The ground was generally well protected from the 8th to the close of the month, especially in the northern and middle sections of the state. On the night of the 20th sleet and rain that froze as it fell covered the snow with a layer of ice, making it slippery and dangerous for travel.

Mean temperature, year 1914

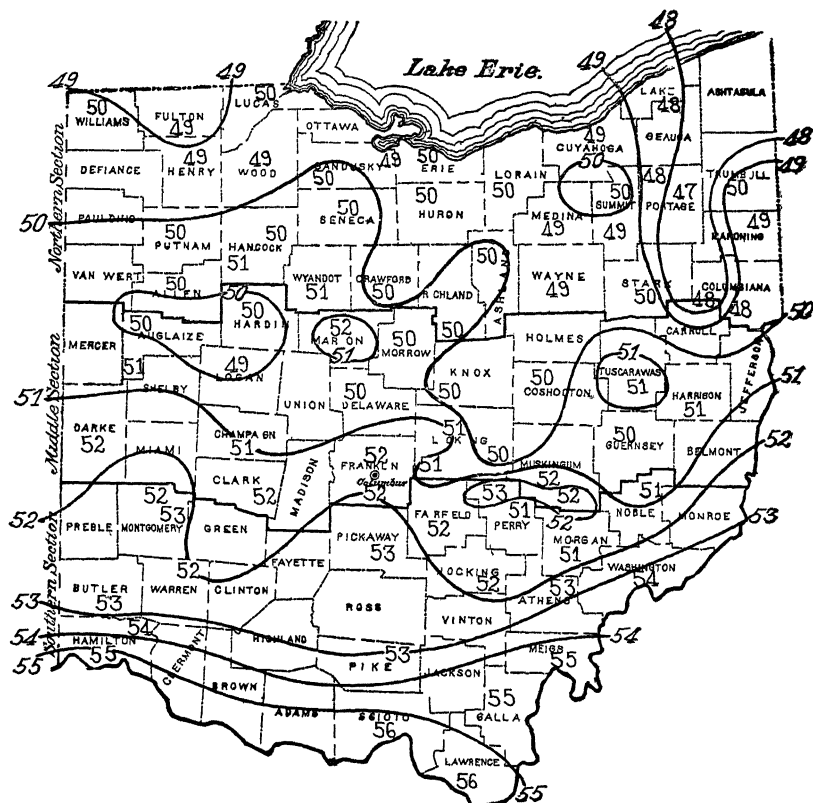


Figure 56. The mean temperature for the year was 50.9°. The highest local annual mean was 55.7° at Portsmouth and the lowest was 47.3° at Garrettsville, Portage county. The highest temperature reported during the year was 106° at Hamilton on July 12 and the lowest was -24° at Garrettsville on February 25.

Temperature departures, year 1914

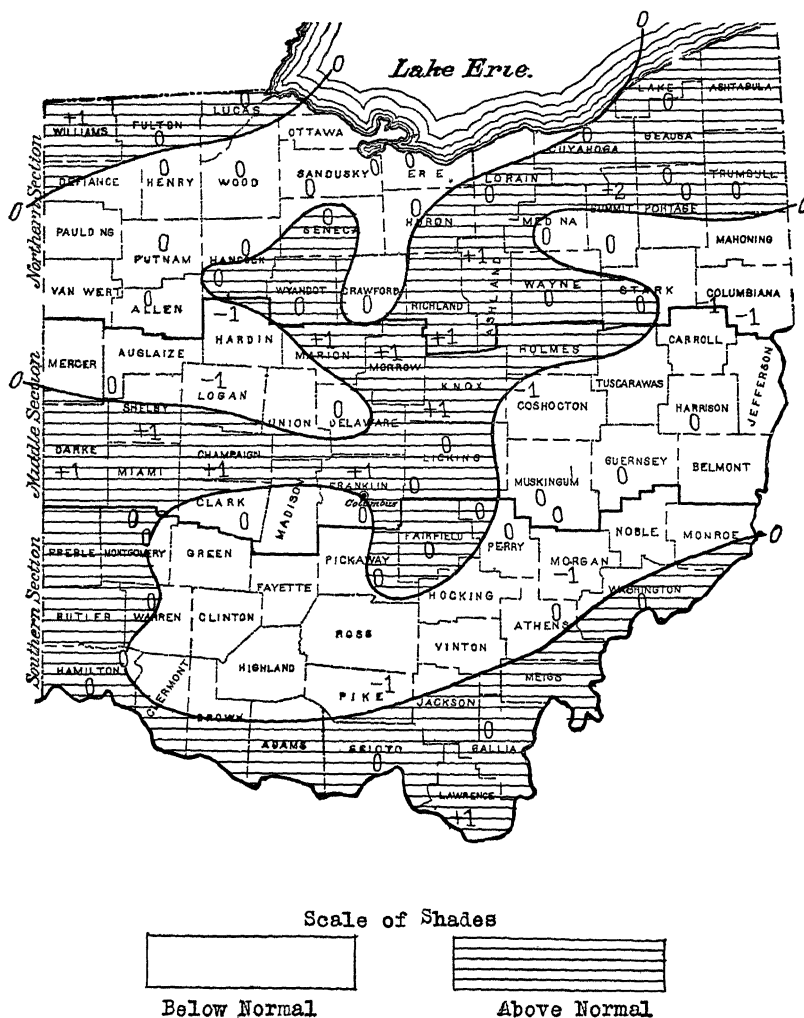


Figure 57. The mean temperature for the year averaged 0.1° above the normal. January and October were much warmer than usual and February, March and December were considerably colder than they usually are.

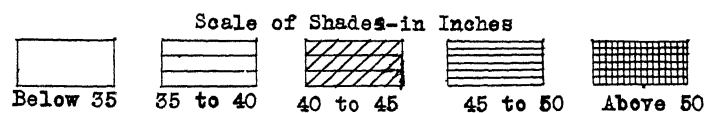
[illegible]

Figure 58. The average annual precipitation for the state was 35.42 inches. The greatest local annual amount was 44.42 inches in Guernsey county and the least was 26.92 inches in Dayton. The rainfall was unusually light during the crop growing months of May, June and July and droughty conditions became quite serious in many localities, especially in the middle and southern counties.

Precipitation departures, year 1914

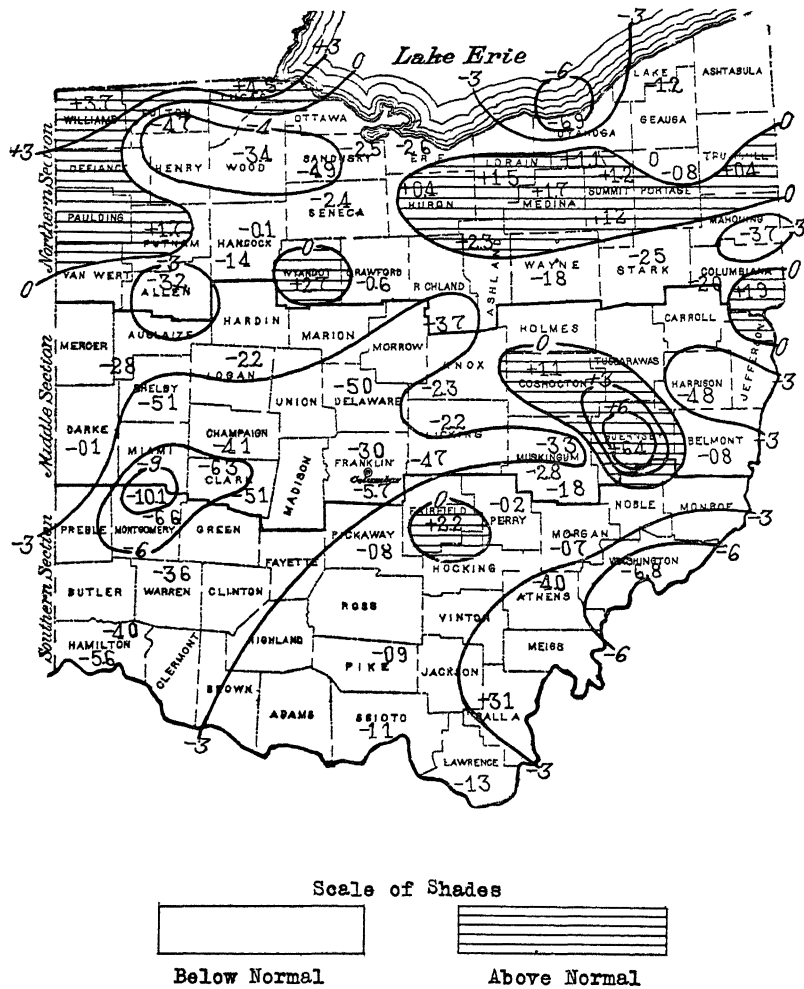


Figure 59. The precipitation for the year averaged 2 05 inches below the normal. It was deficient in nearly all of the middle and southern counties and in many of the northern counties, the deficiency in the southwestern part of the state ranging from four to ten inches.

Snowfall, year 1914

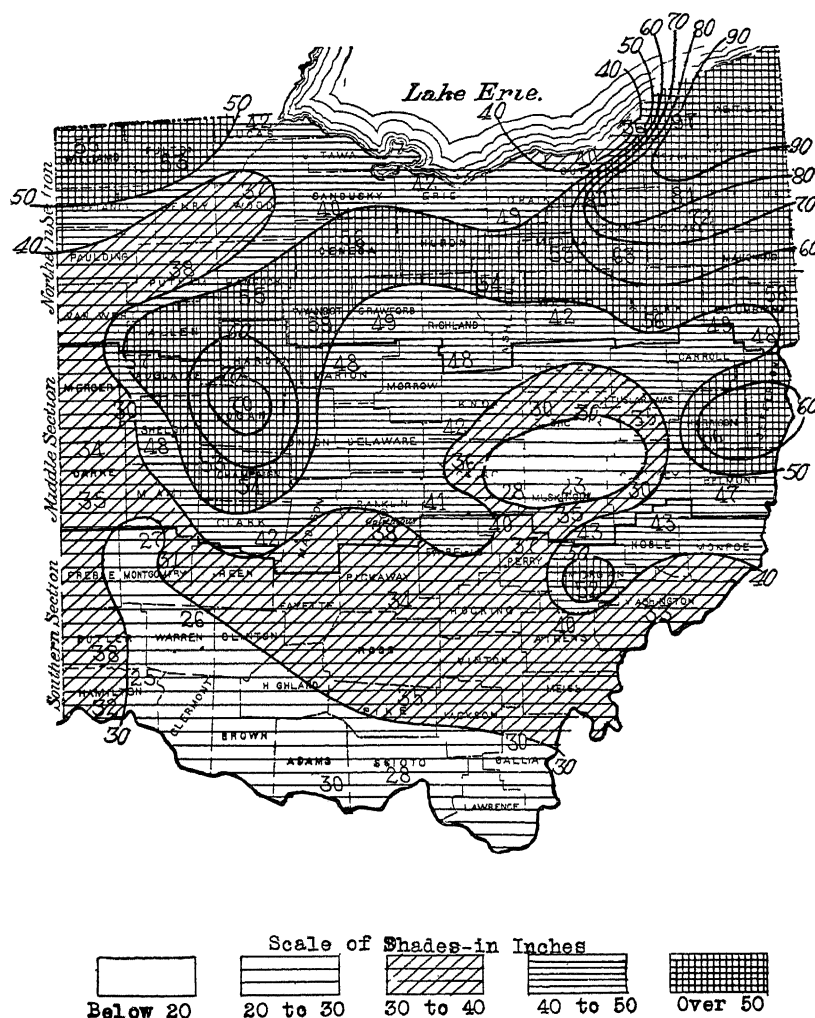


Figure 60. The average annual snowfall for the state was 44.7 inches. It was above normal in all sections and ranged from about 25 inches in the southwestern counties to over 90 inches in the northeastern corner of the state.

Dates of last killing frost in spring, 1914



Figure 61. This chart shows the dates on which the last killing frost of the spring of 1914 occurred at the different stations in Ohio. In the extreme northern portion, where the tempering influence of Lake Erie is felt, and along the Ohio river, killing frost occurred in but few places after April 14. The last one occurred on May 2 in the middle and western counties and on May 16 in many of the eastern counties.

Number of days from last killing frost in spring to the first killing frost in fall

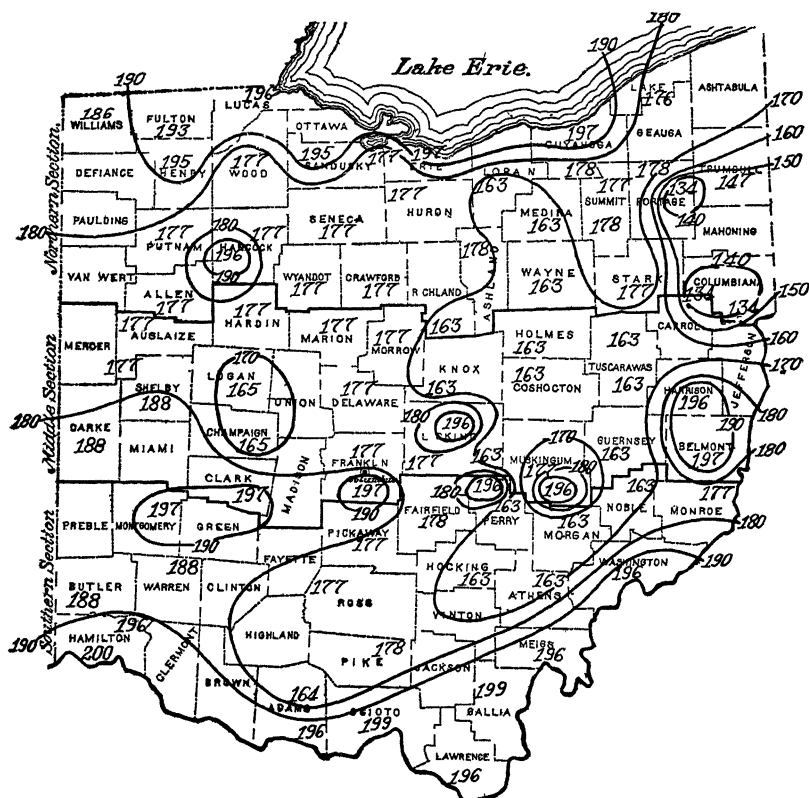


Figure 63. The crop growing season is the period of time between the last killing frost in spring and the first killing frost in autumn. Geographically the length of this period in 1914 was quite irregular, due principally to the variation in the time of the spring frosts. The season was longest in the extreme northern and southern parts of the state and a few scattered middle counties, and shortest in the extreme eastern counties.

METEOROLOGICAL SUMMARY FOR 1914

BY C. A. PATTON

EXPLANATION OF TABLES

The following tables contain statistics of temperature, rainfall, etc., for the year, and are compiled from data obtained from daily observations. T stands for "trace"—less than .01 inch of rainfall. Temperature is given in degrees Fahrenheit.

Table I shows the daily rainfall at the Experiment Station at Wooster during the year in inches and hundredths.

Table II shows the daily mean temperature for each day of 1914 and the monthly mean temperature with the 27 years' average.

Table III gives the monthly mean temperature at the station with the 27 years' average for the same.

Table IV gives the monthly mean rainfall at the station with the 27 years' average for the same.

Table V gives the monthly mean temperature for the state for 1914 with 27 years' average.

Table VI gives the monthly mean rainfall for 1914 with the 27 years' average for the state.

Table VII gives the monthly mean temperature and rainfall for the station and state for 1914 with the 27 years' average.

Table VIII contains the mean temperature, the highest and lowest temperatures with the range of temperature for each month; the number of clear, partly cloudy and cloudy days; the rainfall, snowfall and prevailing direction of wind, for both the station and state for 1914.

Table IX contains the principal points of interest on temperature, rainfall, and state of weather at the station during the year, and a grand summary for 27 years.

Table X contains the principal points of interest on temperature, rainfall, and state of weather for the state during the year and a grand summary for 32 years.

Table XI gives the highest and lowest temperature for each month during the past 27 years for both the station and state.

Table XII gives the total and average precipitation at the different district test farms.

NOTES ON THE WEATHER AT WOOSTER, 1914
SUMMARY BY MONTHSLATITUDE 40° 47' 01" , LONGITUDE 81° 55' 48"
ELEVATION ABOVE SEA LEVEL 1,030 FEET

JANUARY

The mean temperature for January was 31.9° which is 4.4° above the twenty-seven year average for this month. The highest temperature 64° occurred on the 29th, the lowest 0° on the 14th. The weather for the month was generally mild, with many cloudy days. The precipitation was 1.64 inches or 1.74 inches below the average for January.

FEBRUARY

The mean temperature for the month was 20.4°, this being 5.7° below the average for February. The first part of the month was mild, but extremely cold during the last week, the mercury falling to —18 on the 25th. This low temperature has been equaled but once in February in the history of the Station. The precipitation was below the average, being 1.95 inches.

MARCH

The mean temperature for March was 34.5° which is below the average. The highest temperature recorded was 67° on the 29th. The lowest 6° on the 1st and 2nd. There were no warm days until the last week. Frost remaining in the ground very late, and no spring work done in this month. The precipitation was 2.37 inches or 1.32 inches below the average for March.

APRIL

The mean temperature for April was 48.4°. The highest 87° occurred on the 28th. The lowest 19° on the 9th. The weather was cloudy and damp, and spring work advanced slowly. The precipitation was 4.33 inches or 1.27 inches above the average for April.

MAY

The mean temperature was 59.8° which is 1.2° above the average temperature for the month of May. The highest temperature 91° occurred on the 29th. The lowest 29° on the 1st. A very severe electrical and wind storm on the 11th, followed by cold rain and a frost on the 16th, doing but little damage. The rainfall was one inch below the average.

JUNE

The mean temperature was 68.4° which is slightly above the average for June. The highest temperature 95° occurred on the 24th. The lowest 36° on the 17th. Light frost on the 17th and 20th, followed by extremely warm days and many severe electrical storms. The rainfall was 6.33 inches, which is 2.38 inches above the average for June.

JULY

The mean temperature was 71° which is slightly below the twenty-seven year average for July. The highest temperature recorded was 95° on the 12th. The lowest 45° on the 30th and 31st. The rainfall was very light, being only 1.23 inches which is less than one-third the usual amount for July.

AUGUST

The mean temperature for the month was 71.5° which is 2° above the average for this month. The highest temperature 94° occurred on the 19th. The lowest 49° on the 4th, 16th, and 26th. The total precipitation was 5.00 inches, this being 1.39 inches above the average for August.

SEPTEMBER

The mean temperature was 62.2° which is below the average for September. The highest temperature 93° occurred on the 21st, and 22nd. The lowest 34° on the 10th. Light frost occurred on the 9th, 10th, 26th, 27th, 28th, 29th, and 30th, but did not kill tender plants. The rainfall for the month was 2.87 inches.

OCTOBER

The mean temperature for October was 55.8°. The highest temperature recorded was 82° on the 7th. The lowest 26° on the 27th. The weather for the month was very favorable for fall work. No killing frost until the 27th, when the ground was frozen, killing vegetation and freezing ice. The rainfall was above the average, being 3.33 inches.

NOVEMBER

The temperature for November was 40.9°. The highest temperature 74° occurred on the 7th. The lowest 13° on the 18th and 20th. The precipitation was 1.68 inches or 1.07 inches below the average for this month.

DECEMBER

The mean temperature was 25.9° which is 4.6° below the average for December. The highest temperature recorded was 59° on the 1st. The lowest —11° on the 17th. The month was noted for its many cloudy days, and severe cold weather. From two to seven inches of snow on the ground from the 8th till the close of the month. The precipitation was above the average.

METEOROLOGY—TABLE I—RAINFALL

DAILY RAINFALL AND MELTED SNOW FOR 1914 AT THE EXPERIMENT STATION

Date	January	February	March	April	May	June	July	August	September	October	November	December	Date
1.....	....	T	.02	.68	....	.08	.32	....	.09	....	....	.02	1
2.....	....	....	....	.10	....	....	....	....	2.30	....	....	.22	2
3.....	.60	.02	....	.14	....	....	....	.28	....	....	T	T	3
4.....	T	.03	....	....	....	2.00	....	....	....	T	....	.20	4
5.....	....	....	....	.05	.77	.04	....	....	....	....	....	.40	5
6.....	....	.05	....	.20	....	....	....	....	....	.07	..	.05	6
7.....	....	.37	.05	1.12	....	.20	....	.50	....	....	....	.26	7
8.....	....	T	.02	.42	.50	....	....	....	T	....	.70	.75	8
9.....	....	T	.02	T	....	....	....	.50	....	.74	....	T	9
10.....	....	T	....	....	....	....	....	.55	....	.46	....	.20	10
11.....	T	T	.10	.47	.47	....	....	.60	....	.10	....	T	11
12.....	.05	....	....	....	.62	.09	....	.22	....	....	....	....	12
13.....	....	.20	....	....	.02	....	.10	....	....	.25	....	.40	13
14.....	....	.30	....	....	T	....	.26	....	....	.25	....	T	14
15.....	....	....	....	.28	....	....	.15	....	....	.16	.52	....	15
16.....	....	.10	....	....	....	....	....	....	....	.35	.15	....	16
17.....	.02	.05	....	....	....	....	.25	....	....	.19	....	....	17
18.....	....	.03	.15	.01	....	T	....	....	....	.59	....	....	18
19.....	.02	.30	T	.04	....	.04	....	....	....	....	....	.30	19
20.....	T	....	T	T	....	....	....	.15	....	....	T	....	20
21.....	.08	....	....	....	....	T	....	.07	....	....	T	.50	21
22.....	.10	.40	T	T	.25	1.10	....	....	....	....	....	....	22
23.....	....	.10	.10	....	....	....	....	T	.25	....	....	T	23
24.....	.28	....	....	....	....	....	.15	1.05	.23	.02	....	.02	24
25.....	T	....	T	.82	....	....	....	....	T	.02	.04	....	25
26.....	....	....	.26	....	T	.18	....	....	....	.03	....	....	26
27.....	....	....	.70	....	....	1.50	....	....	....	....	....	....	27
28.....	....	....	.50	....	.35	1.10	....	.23	....	....	....	....	28
29.....	....	....	T	T	....	T	....	.85	....	.10	T	.30	29
30.....	T	....	.45	....	T	....	....	....	....	....	.27	.05	30
31.....	.49	....	....	....	....	....	....	....	....	....	....	....	31
Total.....	1.64	1.95	2.37	4.33	2.98	6.33	1.23	5.00	3.87	3.33	1.68	3.67	
Average.....	.053	.070	.076	.144	.096	.211	.040	.161	.096	.107	.056	.118	

METEOROLOGY—TABLE II—TEMPERATURE
MEAN TEMPERATURE FOR EACH DAY OF 1914 AT THE EXPERIMENT STATION

Date	January	February	March	April	May	June	July	August	September	October	November	December	Date
1.....	22.0	29.5	23.0	53.0	42.0	67.0	63.5	73.0	74.0	52.5	51.0	54.5	1
2.....	28.0	31.5	12.5	45.5	45.5	57.0	69.0	72.5	74.5	56.0	50.5	53.5	2
3.....	33.0	43.5	23.0	35.0	52.5	62.0	61.5	67.0	64.5	60.5	50.0	46.5	3
4.....	32.0	32.5	29.5	33.0	64.0	73.5	65.5	65.0	61.5	65.5	53.5	40.0	4
5.....	29.0	32.0	28.0	32.5	63.0	60.5	67.5	68.5	58.0	68.5	44.5	37.5	5
6.....	25.0	33.0	37.0	36.5	61.5	63.0	67.5	75.5	70.5	65.0	42.0	34.5	6
7.....	28.0	32.0	31.0	43.5	54.5	76.5	70.5	77.5	63.5	67.5	52.5	34.5	7
8.....	35.5	10.5	27.5	32.0	53.5	80.0	72.5	77.0	57.0	66.5	51.5	33.5	8
9.....	38.0	14.0	25.0	28.0	52.5	79.0	74.5	76.5	53.0	67.0	43.0	32.5	9
10.....	27.5	23.0	29.0	36.0	61.0	79.5	80.5	76.5	50.5	68.5	40.0	31.5	10
11.....	22.0	14.5	28.0	40.0	65.5	76.0	73.5	73.5	56.5	62.0	43.5	25.0	11
12.....	18.0	8.0	22.0	43.0	58.5	74.0	78.5	69.0	55.5	55.0	40.0	22.0	12
13.....	8.0	9.5	33.0	39.0	45.0	60.0	73.5	67.0	59.5	56.5	48.0	24.0	13
14.....	15.0	14.0	43.5	45.5	49.5	67.0	67.5	72.0	62.0	60.0	44.5	14.0	14
15.....	33.5	12.0	44.0	49.5	47.5	63.0	74.5	66.0	63.0	58.5	50.5	1.5	15
16.....	38.0	14.5	49.5	48.5	47.5	57.0	74.5	67.0	61.0	62.0	39.5	9.0	16
17.....	30.5	20.0	38.5	53.0	53.0	55.0	77.0	76.0	63.5	53.5	24.5	3.5	17
18.....	21.5	29.0	32.5	66.5	65.0	62.5	69.0	79.0	70.5	53.5	24.5	12.5	18
19.....	41.0	24.5	21.0	63.5	62.5	67.5	63.5	80.5	68.0	53.0	29.5	30.5	19
20.....	40.5	12.5	18.0	45.5	57.5	53.5	71.0	78.5	68.5	55.5	19.5	24.5	20
21.....	31.5	13.0	23.0	45.0	65.5	68.0	72.5	74.5	72.5	58.0	25.5	28.0	21
22.....	21.5	19.5	30.5	56.0	63.0	74.5	75.0	71.0	76.0	59.0	31.5	15.0	22
23.....	38.0	7.5	29.5	47.0	59.5	78.0	78.5	72.0	67.5	59.0	25.0	16.0	23
24.....	41.5	4.5	39.5	55.0	62.0	81.0	79.5	71.5	58.5	57.5	32.5	22.5	24
25.....	26.0	7.5	51.0	62.5	71.0	77.5	74.5	61.0	58.0	46.6	44.0	19.5	25
26.....	31.0	15.5	56.0	64.5	77.5	78.0	73.5	66.5	51.0	41.0	49.5	7.5	26
27.....	47.5	31.5	47.0	61.0	75.5	73.0	74.0	66.5	63.0	34.0	42.0	18.0	27
28.....	50.0	33.0	45.5	72.5	75.0	70.5	70.0	68.5	51.0	38.0	42.5	29.5	28
29.....	58.0	....	55.0	70.0	76.0	58.5	64.0	68.5	56.5	42.5	46.5	31.0	29
30.....	43.5	....	52.0	51.5	69.0	61.5	63.5	65.5	58.0	42.5	45.0	32.0	30
31.....	33.0	....	46.5	....	60.0	....	63.0	73.0	....	46.0	....	20.0	31
Monthly mean.	31.9	20.4	34.5	48.4	59.8	68.4	71.0	71.5	62.2	55.8	40.9	25.9	
27 yr. average.	27.5	26.1	37.2	48.1	58.6	67.5	71.3	69.5	63.9	51.4	40.1	30.5	

METEOROLOGY—TABLE III
MONTHLY MEAN TEMPERATURE FOR TWENTY-SEVEN YEARS AT WOOSTER
Temperature in degrees Fahrenheit

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
1888.....	23.0	23.8	31.7	46.3	57.7	69.8	70.1	67.8	57.1	44.9	40.7	31.4	47.4	1888
1889.....	31.1	22.9	38.7	47.1	57.8	64.5	70.0	66.0	60.8	45.3	39.3	40.7	48.6	1889
1890.....	36.0	36.6	30.9	48.4	56.0	69.8	70.5	65.8	59.6	50.0	41.3	28.8	49.5	1890
1891.....	30.0	34.0	32.0	49.0	52.0	68.0	68.0	71.0	68.0	49.0	38.0	37.0	49.7	1891
1892.....	22.0	33.0	33.0	47.0	57.0	70.0	70.0	69.0	61.0	49.0	38.0	28.0	48.0	1892
1893.....	18.0	28.0	38.8	50.1	57.6	69.3	72.0	67.9	63.2	52.3	37.7	30.9	48.7	1893
1894.....	32.8	26.7	43.5	50.5	57.5	67.9	71.4	69.2	66.1	52.3	36.5	32.9	50.6	1894
1895.....	21.9	17.9	32.4	49.5	59.4	69.9	68.6	70.9	66.5	44.2	40.4	32.8	47.8	1895
1896.....	27.9	29.2	29.8	54.6	64.5	65.6	70.2	68.5	60.6	45.8	44.4	30.6	49.3	1896
1897.....	24.0	30.0	39.3	47.2	53.4	64.3	73.2	67.0	66.7	55.9	40.7	31.8	49.4	1897
1898.....	31.6	27.4	43.3	45.3	58.2	68.7	74.5	71.1	66.2	52.6	38.4	27.9	50.4	1898
1899.....	26.6	21.3	35.0	52.1	60.0	69.4	70.0	71.0	61.6	55.0	43.2	29.0	49.5	1899
1900.....	30.2	25.0	31.8	47.8	61.5	68.5	72.6	74.0	67.1	58.9	40.6	30.7	50.7	1900
1901.....	28.3	20.0	39.1	45.2	57.9	69.1	75.9	71.6	63.3	51.7	36.6	26.1	48.7	1901
1902.....	26.3	21.4	41.2	46.2	61.2	65.6	73.0	66.4	62.7	53.9	47.3	28.7	49.5	1902
1903.....	24.4	29.0	45.7	48.0	62.2	63.0	71.8	68.8	64.4	58.2	36.8	21.7	49.1	1903
1904.....	18.6	20.5	37.6	42.8	59.4	67.0	69.8	66.7	64.2	50.4	39.6	28.1	47.1	1904
1905.....	22.6	19.8	41.2	46.8	59.2	68.0	71.6	70.0	63.8	51.0	38.3	33.1	48.8	1905
1906.....	35.9	25.8	30.2	51.9	59.9	68.8	71.0	74.2	67.7	51.4	40.4	31.2	50.7	1906
1907.....	30.8	24.6	44.9	41.7	52.8	64.6	69.9	68.6	65.0	47.4	38.5	32.1	48.4	1907
1908.....	28.7	26.8	43.1	50.1	62.2	68.1	72.4	69.0	66.4	53.0	41.0	31.7	51.0	1908
1909.....	31.7	33.6	35.9	48.4	57.9	69.3	69.6	70.4	62.2	47.8	48.3	25.2	50.0	1909
1910.....	26.7	23.8	47.2	50.2	54.7	64.3	72.6	70.9	65.3	54.9	34.8	24.4	49.2	1910
1911.....	31.3	33.8	35.0	46.5	63.5	68.9	71.7	70.6	65.2	51.8	36.7	34.7	50.8	1911
1912.....	16.6	20.5	30.3	50.0	61.1	64.6	71.6	67.1	65.6	52.4	41.0	33.1	47.8	1912
1913.....	34.2	25.1	38.5	48.9	58.0	67.4	72.4	71.5	62.5	52.2	42.4	33.7	50.6	1913
1914.....	31.9	20.4	34.5	48.4	59.8	68.4	71.0	71.5	62.2	55.8	40.9	25.9	49.2	1914
27 yr. av.....	27.5	26.1	37.2	48.1	58.6	67.5	71.3	69.5	63.9	51.4	40.1	30.5	49.3	

METEOROLOGY—TABLE IV
MONTHLY RAINFALL FOR TWENTY-SEVEN YEARS AT WOOSTER
Rainfall—Inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual	Date
1888....	3.34	2.43	3.34	2.48	3.82	2.31	4.54	4.35	1.92	3.18	4.95	1.39	38.05	1888
1889.....	4.33	2.42	2.13	1.58	2.97	4.86	6.73	1.98	4.05	1.36	3.53	3.93	39.87	1889
1890.....	4.71	6.20	4.37	3.10	6.37	6.92	2.67	4.66	5.13	7.45	2.62	1.74	53.94	1890
1891.....	2.91	4.83	3.71	1.66	2.24	7.13	3.24	1.85	0.93	1.33	5.73	2.92	38.48	1891
1892.....	2.67	2.67	3.38	2.44	7.69	7.89	4.73	2.69	3.20	0.37	2.06	2.74	41.53	1892
1893.....	4.01	6.33	1.89	5.66	6.28	2.51	1.38	1.53	1.85	5.15	2.49	1.50	40.58	1893
1894.....	2.19	3.37	2.36	1.74	4.41	2.23	1.38	0.76	4.25	2.53	2.41	3.15	30.78	1894
1895.....	3.97	0.41	1.98	1.69	1.38	4.20	2.19	2.30	3.92	1.15	4.21	3.51	30.91	1895
1896.....	1.73	2.27	3.67	3.34	3.41	3.98	8.05	1.96	5.16	0.71	1.78	3.04	39.10	1896
1897.....	3.42	2.64	2.81	2.75	4.97	2.98	3.89	3.86	0.29	0.89	5.76	2.50	36.76	1897
1898.....	4.10	2.27	6.44	2.56	4.60	2.70	6.79	5.53	2.15	4.28	4.14	2.29	47.85	1898
1899.....	3.29	1.64	3.95	1.28	4.42	1.95	3.73	0.53	5.56	2.21	1.59	2.78	32.93	1899
1900.....	2.78	2.74	2.25	1.70	2.23	3.71	5.65	5.97	2.19	2.10	4.30	0.99	36.61	1900
1901.....	1.58	1.20	3.09	2.46	4.32	4.82	3.32	3.58	5.64	0.79	1.62	3.47	35.89	1901
1902.....	0.63	0.83	2.99	1.55	2.57	5.55	5.26	1.87	3.49	1.52	2.62	4.07	32.95	1902
1903.....	3.54	3.69	3.29	4.55	1.59	3.69	4.61	6.58	2.07	2.63	2.25	1.95	40.44	1903
1904.....	5.27	3.90	6.22	6.59	4.45	1.67	4.93	2.03	2.27	0.87	0.40	2.68	41.28	1904
1905.....	1.83	1.36	2.61	2.51	5.97	7.50	5.14	4.47	5.10	2.32	2.04	2.08	42.93	1905
1906.....	1.93	1.06	3.57	2.27	2.98	3.81	4.93	7.38	5.16	3.55	2.39	3.79	42.82	1906
1907.....	6.92	1.09	5.80	2.69	3.48	3.81	3.96	2.04	3.13	2.34	1.33	3.41	40.00	1907
1908.....	1.96	3.89	5.02	3.64	4.56	2.17	3.44	3.17	0.73	1.22	1.09	3.05	33.94	1908
1909.....	2.95	5.22	3.02	3.92	4.06	6.44	4.05	5.21	1.73	2.16	2.91	2.55	44.22	1909
1910.....	5.29	4.41	0.54	3.22	4.87	2.57	1.12	0.95	2.59	5.24	2.36	2.29	35.45	1910
1911.....	4.13	2.25	3.26	3.71	2.45	3.78	3.36	5.19	6.53	5.45	2.50	4.54	47.15	1911
1912.....	2.30	1.58	3.77	5.58	5.65	2.21	7.46	7.32	4.41	2.18	1.79	2.35	46.70	1912
1913.....	7.86	2.43	1.84	3.66	3.04	0.97	4.07	4.75	3.70	3.17	3.77	1.92	51.18	1913
1914.....	1.64	1.95	2.37	4.33	2.98	6.33	1.23	5.00	2.87	3.33	1.68	3.67	37.38	1914
27-yr. av...	3.38	2.78	3.69	3.06	3.99	3.95	4.14	3.61	3.33	2.57	2.75	2.75	39.99	

METEOROLOGY—TABLE V
MONTHLY MEAN TEMPERATURE FOR TWENTY-SEVEN YEARS FOR THE STATE
Temperature in degrees Fahrenheit

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
1888.....	24.3	30.5	34.2	49.2	58.8	70.4	72.1	70.4	60.3	47.9	42.9	33.3	49.5	1888
1889.....	33.3	25.8	40.2	49.9	60.2	66.7	72.5	69.1	62.9	47.9	41.0	43.8	51.1	1889
1890.....	38.8	39.4	34.5	51.3	59.2	73.3	73.0	63.8	62.1	52.7	42.2	31.2	52.2	1890
1891.....	33.0	36.0	35.0	52.0	58.0	71.0	69.0	70.0	67.0	51.0	40.0	39.0	51.8	1891
1892.....	24.0	35.0	35.0	49.0	59.0	73.0	73.0	71.0	64.0	52.0	38.0	29.0	50.2	1892
1893.....	18.0	29.0	38.0	50.2	58.3	70.6	74.5	70.7	65.2	53.7	39.3	32.7	50.0	1893
1894.....	33.7	28.9	45.1	50.6	60.0	71.3	74.3	71.2	67.8	53.9	37.5	33.9	52.4	1894
1895.....	23.4	19.6	35.5	51.7	61.1	72.0	71.6	73.5	69.0	46.9	41.9	33.9	50.0	1895
1896.....	29.4	30.5	32.4	56.9	67.9	69.5	73.2	71.8	62.7	49.0	45.1	32.9	51.8	1896
1897.....	25.5	32.4	41.5	49.3	56.3	68.1	75.5	69.4	66.9	58.1	42.2	32.8	51.5	1897
1898.....	32.4	30.0	45.0	47.2	61.0	71.9	76.0	73.5	67.8	54.1	38.8	28.8	52.2	1898
1899.....	27.8	21.6	36.9	53.3	63.3	71.5	74.1	73.7	64.1	57.4	43.9	30.2	51.5	1899
1900.....	31.1	26.0	32.9	50.1	62.9	69.8	74.1	76.3	69.3	60.5	41.6	31.6	52.2	1900
1901.....	29.2	21.1	39.5	46.7	59.0	70.9	78.1	73.1	64.8	53.8	37.7	27.9	50.2	1901
1902.....	27.3	23.3	41.9	48.2	62.6	66.9	74.0	68.9	63.6	54.6	48.5	29.4	50.7	1902
1903.....	27.1	29.9	46.7	49.9	63.9	64.4	72.9	70.7	65.6	54.0	37.2	23.4	50.5	1903
1904.....	20.7	22.9	39.7	44.4	60.7	68.4	71.4	68.8	65.5	52.2	40.5	28.0	48.6	1904
1905.....	22.7	20.8	42.7	48.5	60.7	69.2	73.0	71.7	65.3	52.6	39.6	32.9	50.0	1905
1906.....	35.7	27.3	31.3	52.1	61.3	69.8	72.1	74.6	68.9	52.7	41.1	32.3	51.6	1906
1907.....	32.2	26.0	45.9	42.5	54.5	65.6	72.6	69.5	65.5	48.8	39.1	33.0	49.6	1907
1908.....	29.1	27.7	43.4	51.0	62.8	69.2	73.9	71.2	68.0	54.1	41.7	33.1	52.1	1908
1909.....	32.2	34.7	37.3	49.1	58.7	70.1	70.7	71.9	63.2	48.8	48.9	25.4	50.9	1909
1910.....	27.6	25.5	48.2	51.5	56.0	65.9	73.8	71.4	66.3	56.7	36.3	25.5	50.4	1910
1911.....	32.8	34.5	37.4	47.7	66.3	70.9	74.0	72.5	67.5	53.3	37.6	36.3	52.6	1911
1912.....	17.9	22.4	32.9	51.9	62.5	66.6	73.4	69.2	67.4	54.8	42.2	33.8	49.6	1912
1913.....	36.0	26.7	40.1	50.0	60.3	69.8	74.5	73.3	64.1	54.1	44.4	34.5	52.3	1913
1914.....	33.4	22.1	36.0	50.1	62.2	71.1	74.0	72.8	63.4	56.9	42.1	27.0	50.9	1914
27 yr. av...	28.8	27.7	38.9	49.8	60.6	69.6	73.4	71.4	65.5	53.1	41.2	31.7	51.0	

METEOROLOGY—TABLE VI
MONTHLY RAINFALL FOR TWENTY-SEVEN YEARS FOR THE STATE

Rainfall—Inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual	Date
1888.....	3.65	1.74	3.55	1.99	3.77	3.41	4.40	5.16	2.27	3.98	4.25	1.47	39.64	1888
1889.....	3.13	1.35	1.38	1.79	3.71	4.13	4.19	1.50	3.62	1.78	4.02	2.81	33.41	1889
1890.....	4.94	5.25	5.29	3.45	5.52	4.50	1.99	4.66	5.56	4.27	2.53	2.37	50.33	1890
1891.....	2.82	4.91	4.19	2.13	2.20	4.82	3.82	3.07	1.50	1.76	5.00	2.39	38.61	1891
1892.....	2.11	3.03	2.86	3.32	6.32	5.61	3.80	2.99	2.36	0.73	2.32	1.71	37.16	1892
1893.....	2.56	5.13	2.09	6.37	4.97	3.34	2.49	2.17	1.57	4.24	2.09	2.61	39.63	1893
1894.....	2.14	2.79	2.16	2.31	4.00	2.65	1.56	1.67	3.31	2.01	2.17	2.98	29.75	1894
1895.....	4.00	0.69	1.59	2.11	1.80	2.47	2.00	2.96	1.66	1.22	4.11	3.85	28.46	1895
1896.....	1.67	2.21	3.34	2.78	2.67	4.81	8.11	3.38	5.13	1.20	2.63	1.65	39.58	1896
1897.....	1.93	3.64	5.17	3.27	3.93	2.85	4.65	2.72	0.78	0.64	6.62	2.39	38.59	1897
1898.....	5.25	2.32	6.23	2.38	4.10	2.86	3.98	4.50	2.56	3.72	3.17	2.71	43.78	1898
1899.....	3.01	2.11	4.64	1.61	4.32	2.94	4.17	1.82	2.68	2.14	1.72	3.16	34.32	1899
1900.....	2.37	3.46	2.35	1.89	2.40	3.01	4.62	3.68	1.76	1.89	4.15	1.24	32.82	1900
1901.....	1.70	1.24	2.66	3.40	3.96	4.44	2.72	3.33	2.86	0.73	1.53	3.79	32.36	1901
1902.....	1.42	0.88	2.76	2.21	3.09	7.48	4.69	1.67	4.55	2.28	2.60	3.95	37.58	1902
1903.....	2.36	4.95	3.51	4.01	2.82	4.02	3.67	3.20	1.52	2.62	2.10	2.07	36.85	1903
1904.....	3.85	2.69	5.67	3.53	3.79	2.88	4.13	2.74	1.95	1.50	0.37	3.09	36.19	1904
1905.....	1.73	1.58	2.50	3.10	5.63	4.72	3.93	4.46	2.86	3.65	2.63	2.29	39.08	1905
1906.....	1.98	1.16	3.97	1.89	2.17	3.42	5.14	4.77	2.92	3.19	2.59	3.68	36.88	1906
1907.....	6.06	0.85	5.55	2.74	3.47	4.57	5.36	2.48	3.92	2.76	1.93	3.16	42.85	1907
1908.....	1.82	4.10	5.43	3.71	4.72	2.51	4.08	2.59	0.58	1.17	1.06	2.33	34.10	1908
1909.....	3.24	5.39	2.77	4.13	4.72	5.86	3.76	3.56	1.78	2.31	2.52	2.62	42.66	1909
1910.....	4.48	4.05	0.26	3.49	3.80	2.66	3.17	1.58	4.05	4.19	1.89	2.41	36.03	1910
1911.....	3.90	1.95	2.33	4.35	1.69	3.92	2.40	5.39	4.87	4.99	2.91	3.93	42.63	1911
1912.....	2.12	2.08	4.17	4.47	3.12	3.17	5.70	4.08	3.11	2.44	1.10	2.26	37.82	1912
1913.....	7.01	1.94	8.40	3.35	3.53	1.87	5.20	2.52	2.37	3.36	3.52	1.68	44.75	1913
1914.....	2.30	3.04	2.42	4.01	3.11	3.14	2.19	5.08	1.41	3.42	1.53	3.77	35.42	1914
27 yr. av...	3.09	2.76	3.60	3.10	3.68	3.78	3.92	3.35	2.72	3.53	2.71	2.68	37.83	

METEOROLOGY—TABLE VII

MEAN TEMPERATURE AND RAINFALL AT THE STATION AND FOR THE STATE, 1914, AND FOR TWENTY-SEVEN YEARS

Temperature in degrees Fahrenheit. Rainfall in inches

	January	February	March	April	May	June	July	August	September	October	November	December	Year
Mean temperature at the Station, 1914.....	31.9	20.4	34.5	48.4	59.8	68.4	71.0	71.5	62.2	55.8	40.9	25.9	49.2
Twenty-seven years' average temperature at the Station....	27.5	26.1	37.2	48.1	58.6	67.5	71.3	69.5	63.9	51.4	40.1	30.5	49.3
Mean temperature for the State, 1914.....	33.4	22.1	36.0	50.1	62.2	71.1	74.0	72.8	63.4	56.9	42.1	27.0	50.9
Twenty-seven years' average temperature for the State.....	28.8	27.7	38.9	49.8	60.6	69.6	73.4	71.4	65.5	53.1	41.2	31.7	51.0
Rainfall at the Station, 1914.....	1.64	1.95	2.37	4.33	2.98	6.33	1.23	5.00	2.87	3.33	1.68	3.67	37.38
Twenty-seven years' average rainfall at the Station.....	3.38	2.78	3.69	3.06	3.99	3.95	4.14	3.61	3.33	2.57	2.75	2.75	39.99
Rainfall for the State, 1914.....	2.30	3.04	2.42	4.01	3.11	3.14	2.19	5.08	1.41	3.42	1.53	3.77	35.42
Twenty-seven years' average rainfall for the State.....	3.09	2.76	3.60	3.10	3.68	3.78	3.92	3.25	2.72	2.53	2.71	2.68	37.83

METEOROLOGY— TABLE VIII
SUMMARY BY MONTHS FOR 1914

AT THE STATION	Temperature										Number of days				Precipitation in inches			Prevailing wind	
	Mean	Highest	Date	Lowest	Date	Range	Mean daily range	Greatest daily range	Date	Least daily range	Date	Clear	Partly cloudy	Cloudy	Rainfall .01 or more	Monthly rainfall	Average daily rainfall		Monthly snowfall
January.....	31.9	64	29	0	14	64	14.4	32	23	2	4	6	6	19	8	1.64	.053	8.50	S. W.
February.....	20.4	51	3	-18	25	69	20.7	51	25	5	23	5	4	19	12	1.95	.070	14.50	N. W.
March.....	34.5	67	29	6	*1	61	18.5	35	24	6	19	5	7	19	11	2.37	.076	3.30	S. W.
April.....	48.4	87	28	19	9	68	20.7	35	*14	7	1	9	5	16	12	4.33	.144	2.50	N. W.
May.....	59.8	91	29	29	1	62	26.7	38	*18	8	13	19	6	6	7	2.98	.096	.....	S. W.
June.....	68.4	95	24	36	17	59	26.3	42	21	9	29	20	6	4	10	6.33	.211	.....	N. W.
July.....	71.0	95	*12	45	*30	50	26.7	40	22	13	*1	24	4	3	6	1.23	.040	.....	S. W.
August.....	71.5	94	19	49	*4	45	25.8	38	23	13	*11	22	6	3	11	5.00	.161	.....	S. W.
September.....	62.2	93	*21	34	10	59	26.4	46	29	8	8	17	4	9	4	2.87	.096	.....	N. W.
October.....	55.8	82	7	26	27	56	22.3	40	*2	5	29	15	3	13	14	3.33	.107	.....	S. W.
November.....	40.9	74	7	13	*18	61	21.8	43	7	7	15	7	7	16	5	1.68	.056	0.75	S. W.
December.....	25.9	59	1	-11	17	70	13.6	39	18	3	*6	6	1	24	14	3.67	.118	13.00	N. W.
Sums and averages.....	49.2	95	June *30	-18	Feb. 25	†113	22.0	51	Feb. 25	2	Jan. 4	155	59	151	114	3.8	.102	42.55	S. W.
FOR THE STATE																			
January.....	33.4	75	*28	-17	14	92	.....	41	14	..	..	5	6	20	9	2.30	.074	10.5	S. W.
February.....	22.1	67	22	-24	25	91	.....	66	25	..	..	11	7	10	10	3.04	.109	17.8	N. E.
March.....	36.0	78	26	-2	12	90	.....	49	14	..	..	9	9	13	10	2.42	.078	4.8	N. W.
April.....	50.1	91	*28	12	9	79	.....	55	6	..	..	9	7	14	12	4.01	.134	0.8	S. W.
May.....	62.2	102	29	26	*1	76	.....	50	20	..	..	17	8	6	7	3.11	.100	.....	S. W.
June.....	71.1	104	25	32	17	72	.....	52	20	..	..	14	11	5	8	3.14	.105	.....	S. W.
July.....	74.0	106	12	41	*30	65	.....	48	*8	..	..	18	8	5	6	2.19	.071	.....	S. W.
August.....	72.8	101	19	41	26	60	.....	48	23	..	..	15	10	6	10	5.08	.164	.....	S. W.
September.....	63.4	97	*22	26	28	71	.....	51	16	..	..	18	8	4	5	1.41	.047	.....	S. W.
October.....	56.9	91	7	17	27	74	.....	50	31	..	..	12	7	12	11	3.42	.110	.....	S. W.
November.....	42.1	80	7	5	20	75	.....	49	*7	..	..	14	8	8	5	1.53	.051	0.9	S. W.
December.....	27.0	74	2	-19	26	93	.....	48	18	..	..	7	5	19	13	3.77	.122	9.9	S. W.
Sums and averages.....	50.9	106	July 12	-24	Feb. 25	†130	.....	66	Feb. 25			149	94	122	106	35.42	.097	44.7	S. W.

*On other dates also.

†Difference between highest and lowest.

METEOROLOGY—TABLE IX

AT EXPERIMENT STATION	1914	Summary for 27 years
Mean temperature.....	49.2°	49.3°
Highest temperature.....	95° June 24	101° July 4, '11
Lowest temperature.....	-18° Feb. 25	-24° Jan. 13, '12
Range of temperature.....	113°	125°
Mean daily range of temperature.....	22°	211°
Greatest daily range of temperature.....	51° Feb. 25	55° Oct. 6, '95
Least daily range of temperature.....	2° Jan. 4	0° *22
Number of clear days.....	155	134
Number of partly cloudy days.....	59	90
Number of cloudy days.....	151	142
Number of days rain fell.....	114	129
Total yearly rainfall.....	37.38 inches	39.97 inches
Greatest monthly rainfall.....	6.33 in. June	11.84 in. Mar. '13
Least monthly rainfall.....	1.23 in. July	.29 in. Sept. '97
Prevailing direction of wind.....	S. W.....	S. W.....

METEOROLOGY—TABLE X

FOR THE STATE	1914	Summary for 32 years
Mean temperature.....	50.9°	50.8°
Highest temperature.....	106° July 12	113° July 4, '97
Lowest temperature.....	-24° Feb. 25	-39° Feb. 10, '99
Range of temperature.....	130°	152°
Greatest daily range of temperature.....	66° Feb. 25	67° Sept. '97
Average number of days rain fell.....	106	120
Mean yearly rainfall.....	35.42 inches	37.84 inches
Mean daily rainfall.....	.097 inch	.104 inch
Prevailing direction of wind.....	S. W.....	S. W.....

METEOROLOGY—TABLE XI

MONTHLY MAXIMUM AND MINIMUM TEMPERATURE FOR TWENTY-SEVEN YEARS AT WOOSTER

Date	January		February		March		April		May		June		July		August		September		October		November		December	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
1888.....	54	-5	54	-1	67	8	84	19	82	31	89	40	90	43	92	41	82	31	69	27	72	19	57	9
1889.....	54	12	54	-5	71	16	80	21	90	30	87	38	92	49	90	45	92	37	76	23	65	16	65	18
1890.....	66	5	65	14	60	1	74	23	83	30	88	46	94	45	95	40	88	38	81	30	66	24	48	15
1891.....	51	12	60	3	61	0	83	21	82	28	89	44	89	49	99	53	98	42	88	25	71	10	58	16
1892.....	54	-20	54	6	65	10	76	28	86	38	90	56	98	48	92	49	88	36	81	25	67	16	61	-2
1893.....	51	-9	47	-2	75	10	83	24	84	36	92	45	95	47	93	37	95	28	85	24	66	15	62	6
1894.....	56	1	64	-1	75	14	92	24	83	35	93	37	98	41	96	41	93	36	80	28	65	31	57	-7
1895.....	54	-6	60	-6	59	9	80	21	94	27	98	35	92	42	94	42	93	34	71	19	72	18	61	-2
1896.....	53	-2	58	-6	65	4	89	19	86	44	87	39	92	45	93	41	92	34	71	21	69	13	56	1
1897.....	61	-18	54	0	69	11	79	21	78	31	88	37	96	50	92	42	96	28	86	25	65	12	60	2
1898.....	64	-1	64	-9	71	12	77	16	81	32	90	40	96	45	90	46	90	38	86	24	66	22	63	-2
1899.....	55	-6	57	-21	67	9	86	21	86	30	92	40	94	45	95	39	94	32	92	22	69	6	55	11
1900.....	54	-5	65	-10	57	-4	78	20	89	25	90	44	95	44	94	49	89	41	86	30	67	18	64	-11
1901.....	53	-4	40	0	69	-1	82	22	82	33	91	38	95	50	94	47	86	34	79	26	72	24	60	-5
1902.....	47	2	59	-9	69	9	83	24	97	29	89	39	93	46	88	40	85	32	77	27	71	9	49	-2
1903.....	60	-8	63	-9	76	21	74	19	89	27	88	41	94	42	92	43	89	32	79	26	68	15	63	-1
1904.....	60	-21	57	-10	74	13	72	12	88	33	88	44	92	46	90	42	89	31	83	19	61	16	52	13
1905.....	59	-8	43	-12	79	10	77	23	82	31	89	38	92	50	90	46	87	36	80	23	72	23	58	6
1906.....	72	6	65	-14	61	-5	80	21	86	29	92	47	88	46	91	48	90	44	74	22	55	18	56	9
1907.....	67	-14	50	-5	82	12	78	15	81	29	89	40	88	40	90	43	88	34	82	24	68	17	59	7
1908.....	51	4	56	-3	75	21	80	24	89	30	91	36	92	46	95	43	95	28	84	22	72	21	66	-6
1909.....	66	-11	60	-2	60	12	81	13	84	31	89	42	89	45	89	41	90	30	81	24	66	14	49	0
1910.....	45	-1	48	-12	84	18	81	23	82	25	90	35	94	44	94	38	91	34	85	22	65	10	61	7
1911.....	56	-11	62	9	67	4	77	16	92	28	94	46	101	43	97	41	87	37	75	22	68	18	58	8
1912.....	44	-24	55	-16	68	6	78	23	86	36	88	31	90	51	89	41	93	30	82	26	73	12	56	7
1913.....	57	4	62	-2	74	1	83	20	86	25	96	32	95	42	96	45	93	28	81	24	74	13	59	-11
1914.....	64	0	51	-18	67	6	87	19	91	29	95	36	95	45	94	49	93	34	82	26				
Extremes.....	72	-24	65	-21	84	-5	92	12	97	25	98	31	101	40	99	37	98	28	92	19	74	6	66	-11

METEOROLOGY—TABLE XI. Concluded
MONTHLY MAXIMUM AND MINIMUM TEMPERATURE FOR TWENTY-SEVEN YEARS FOR THE STATE

Date	January		February		March		April		May		June		July		August		September		October		November		December	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest*	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
1888.....	68	-15	68	-10	77	-6	92	19	91	23	102	34	97	42	102	35	92	26	80	22	80	17	62	1
1889.....	61	-8	70	-14	82	10	88	15	96	26	92	38	98	46	100	40	98	28	82	17	77	9	73	10
1890.....	75	1	73	5	69	4	86	20	92	28	101	39	101	43	103	40	92	33	85	29	76	17	65	3
1891.....	65	3	80	-2	74	-5	95	15	93	25	98	40	95	41	101	39	99	36	93	20	76	0	66	9
1892.....	61	-27	74	-1	80	-6	90	14	99	28	101	47	103	40	99	45	96	34	89	20	76	8	70	-12
1893.....	63	-24	68	-14	87	-8	93	20	94	23	102	40	101	42	101	37	100	24	95	15	76	-2	72	-5
1894.....	66	-16	76	-15	91	3	97	16	98	31	102	29	105	36	104	36	103	27	90	15	79	4	70	-27
1895.....	62	-19	70	-24	86	-7	90	16	102	19	105	29	106	34	103	31	105	25	84	8	85	5	79	-13
1896.....	70	-14	78	-18	73	-7	103	15	99	36	98	33	102	39	102	35	100	25	85	17	79	7	67	-15
1897.....	71	-27	72	-9	82	5	92	11	91	25	102	31	113	44	101	38	105	25	97	20	76	2	71	-7
1898.....	71	-18	72	-20	84	5	87	10	92	29	99	39	105	38	100	40	102	33	96	20	76	2	67	-18
1899.....	66	-15	67	-39	76	0	94	6	96	28	102	36	105	41	104	39	107	26	94	20	79	18	69	-7
1900.....	67	-20	80	-20	70	9	87	15	97	20	96	38	103	38	103	40	100	33	93	23	80	0	65	-2
1901.....	67	-10	60	-20	84	8	91	18	90	26	103	30	109	48	101	42	98	29	88	20	79	10	73	-19
1902.....	63	-11	66	-17	82	4	90	17	98	24	98	33	100	43	97	37	94	24	88	21	87	17	63	-11
1903.....	73	-13	69	-20	85	11	88	10	93	22	95	35	104	42	101	38	98	26	93	15	88	2	57	-11
1904.....	70	30	75	-18	86	-1	81	7	95	27	98	37	99	41	97	38	99	23	92	15	75	0	69	-16
1905.....	65	-17	54	-22	85	-5	89	12	93	26	99	34	100	44	96	41	95	30	89	20	71	10	58	2
1906.....	79	-14	72	-23	74	-12	91	18	94	24	100	34	98	43	101	43	98	36	91	18	82	14	68	-15
1907.....	75	-23	66	-19	96	-2	86	10	89	24	96	36	98	37	96	40	93	29	88	19	71	11	69	2
1908.....	59	-8	66	-22	85	12	91	16	96	25	100	33	102	42	104	37	100	24	90	15	77	5	68	-2
1909.....	74	-17	70	-17	70	6	90	13	91	24	96	36	97	40	96	35	95	25	86	16	80	15	75	-20
1910.....	62	-24	68	-25	90	12	88	19	88	21	97	33	98	43	100	36	93	34	94	18	78	11	63	-10
1911.....	68	-19	76	-2	81	1	86	8	101	25	101	40	107	41	104	34	97	33	88	20	79	8	79	-3
1912.....	57	-37	68	-25	80	-3	89	15	91	31	93	28	101	42	95	40	99	29	93	23	82	3	74	-5
1913.....	70	3	77	-15	80	-8	90	18	95	23	105	29	103	40	102	39	102	26	96	18	78	2	65	-3
1914.....	75	-17	67	-24	78	-2	91	12	102	26	104	32	106	41	101	41	97	26	91	17	80	5	74	-19
Extremes.....	79	-37	80	-39	96	-12	103	6	102	19	105	28	113	34	104	31	107	23	97	8	88	0	79	-27

TABLE XII: MONTHLY RAINFALL AT DISTRICT TEST-FARMS
Rainfall—inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Strongsville														
1897	.91	1.62	3.29	3.88	5.99	1.88	5.56	3.25	1.13	.87	7.02	1.92	37.32	1897
1898	5.47	3.75	4.82	2.37	3.43	5.60	4.25	5.69	2.72	5.59	3.25	7.39	54.33	1898
1899	4.35	2.32	5.25	3.11	5.58	2.10	5.75	.61	3.14	2.86	1.55	6.36	42.98	1899
1900	3.22	5.53	3.01	2.22	1.85	1.36	4.73	2.49	3.56	2.22	4.91	1.94	37.04	1900
1901	2.73	2.20	4.35	4.76	5.14	3.32	3.15	7.46	5.51	.47	2.51	5.34	48.94	1901
1902	1.17	1.40	2.64	2.91	4.29	9.34	7.39	4.52	5.58	2.73	2.35	3.34	47.66	1902
1903	2.37	2.97	3.18	6.68	1.45	3.78	6.49	8.72	1.88	3.09	2.70	2.62	45.93	1903
1904	6.51	3.59	4.68	3.47	6.07	1.45	5.80	3.48	2.73	1.20	.50	3.87	43.35	1904
1905	2.48	2.73	3.24	3.97	4.38	2.18	5.04	4.11	3.50	2.95	2.92	1.66	39.16	1905
1906	2.03	2.06	....	1.93	1.01	4.67	2.72	4.30	6.70	....	4.77	5.12	. . .	1906
1907	5.21	1.20	....	....	....	....	....	....	....	....	....	....	. . .	1907
1908	....	....	....	....	2.82	2.78	3.70	3.10	1.00	1.60	1.08	1.90	. . .	1908
1909	2.48	2.56	....	3.49	4.13	3.20	4.40	3.60	2.71	2.60	2.80	1.30	....	1909
1910	4.80	2.21	1.10	....	3.05	2.50	1.00	1.37	4.85	3.90	3.98	2.99	. . .	1910
1911	....	1.16	1.85	3.03	1.95	1.80	.80	3.28	5.33	3.85	....	1.51	....	1911
1912	1.38	1.49	2.91	5.12	3.62	1.80	6.88	4.74	4.34	2.40	.20	1.89	36.77	1912
1913	4.50	1.45	9.30	2.08	2.15	1.30	2.60	1.70	3.30	3.59	2.61	1.13	35.71	1913
1914	2.00	1.90	2.40	4.95	5.30	3.40	2.00	5.32	.40	....	....	....	. . .	1914
Av.....	3.22	2.36	3.71	3.60	3.66	3.08	4.25	3.98	3.43	2.66	2.88	3.14	42.65	

TABLE XII: MONTHLY RAINFALL AT DISTRICT TEST-FARMS—Continued

Rainfall—inches

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Germantown														
1905				3.45	7.70	3.00	3.80	7.90	3.56	4.10	2.24	2.28		1905
1906	2.92	1.07	6.93	1.88	1.34	2.88	6.24	7.46	2.30	1.65	3.80	4.32	42.79	1906
1907	7.22	.32	6.25	2.26	3.20	3.65	4.10	1.93	5.64	2.92	3.25	3.22	43.96	1907
1908	2.11	6.33	4.24	4.53	4.47	1.42	3.86	1.36	.35	.27	1.70	1.31	31.95	1908
1909	3.41	7.67	2.07	5.58	6.98	5.93	4.50	3.34	.89	3.13	1.95	4.00	49.45	1909
1910	3.00	4.25	1.10	1.87	5.08	1.58	3.95	1.11	3.96	7.60	.96	2.85	36.41	1910
1911	5.00	1.46	3.00	6.01	1.36	2.67	1.78	4.56	5.16	4.48	3.06	3.81	42.35	1911
1912	3.23	1.68	4.29	6.51	3.49	2.24	3.78	9.05	2.50	2.79	.72	3.30	43.58	1912
1913	8.40	2.05	7.32	5.25	2.62	2.40	3.49	2.23	2.33	2.56	4.80	.88	44.33	1913
1914	2.62	3.75	3.05	2.47	1.43	2.63	2.51	6.21	.18	2.19	2.03	2.72	31.79	1914
Av.	4.21	3.18	4.14	3.98	3.77	2.84	3.80	4.51	2.69	3.17	2.45	2.87	40.73	
Carpenter														
1903				3.75	5.69	5.07	4.23	1.02	1.02	2.60	2.73	3.28		1903
1904	3.74	2.89	5.07	3.03	2.69	3.16	3.79	2.71	2.08	1.10	.18	3.40	33.84	1904
1905	1.02	1.35	4.07	2.70	7.02	5.11	3.77	4.11	1.02	5.20	2.45	3.51	41.33	1905
1906	3.58	1.85	3.82	1.43	1.40	6.39	1.40	2.92	3.24	2.58	3.50	3.50	35.61	1906
1907	8.94	2.28	6.13	3.57	3.47	4.49	4.84	4.10	2.94	2.38	2.14	1.72	47.00	1907
1908	1.37	4.31	7.80	5.15	3.36	2.92	3.74	3.50	.48	.85	1.37	2.13	37.98	1908
1909	3.05	5.72	2.77	4.10	4.29	7.53	4.18	2.18	.86	2.12	.90	2.05	39.85	1909
1910	6.40	4.70	2.20	3.23	2.91	2.95	3.40	1.74	.99	1.68	1.42	2.80	31.82	1910
1911	5.56	3.08	2.26	3.90	2.06	6.14	1.19	4.69	5.18	3.68	2.20	4.01	43.95	1911
1912	1.48	2.44	3.39	4.04	2.90	2.92	5.46	2.56	2.51	1.80	.38	2.09	31.97	1912
1913	6.78	1.98	1.71	2.74	4.23	2.29	2.64	2.38	2.07	2.89	2.34	2.36	34.41	1913
1914	1.17	2.05	1.72	2.84	2.33	2.53	1.23	4.88	1.07	2.98	1.08	4.65	28.53	1914
Av.	3.92	2.97	3.54	3.37	3.61	4.25	3.32	3.07	1.95	2.49	1.72	2.96	36.93	